

**ORDER NO. ACED060611C3**

# Service Manual

**AUTOMOTIVE AFTERMARKET**

**CQ-C3302N**  
**WMA MP3 CD Player/Receiver**



## SPECIFICATIONS

### Specifications\*

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| <b>General</b>                  |                                                              |
| <b>Power Supply</b>             | DC 12V (11V - 16V),<br>Test Voltage 14.4V<br>Negative Ground |
| <b>Current Consumption</b>      | Less than 2.2A (CD mode ; 0.5W<br>4-channels)                |
| <b>Maximum Power Output</b>     | 50W×4 (at 4 )                                                |
| <b>Power Output</b>             | 22W×4 (DIN45 324, at 4 )                                     |
| <b>Tone Adjustment Range</b>    | Bass ; ±12dB at 100Hz<br>Treble ; ±12dB at 10kHz             |
| <b>Speaker Impedance</b>        | 4-8                                                          |
| <b>Pre-Amp Output Voltage</b>   | 2.5V (CD mode)                                               |
| <b>Pre-Amp Output Impedance</b> | 200                                                          |
| <b>FM Stereo Radio</b>          |                                                              |
| <b>Frequency Range</b>          | 87.5MHz - 108MHz                                             |
| <b>Usable Sensitivity</b>       | 6dB/ V (S/N 30dB)                                            |
| <b>Stereo Separation</b>        | 35db (at 1kHz)                                               |
| <b>AM (MW) Radio</b>            |                                                              |
| <b>Frequency Range</b>          | 531kHz - 1,602kHz                                            |
| <b>Usable Sensitivity</b>       | 27dB/ V (S/N 20dB)                                           |
| <b>AM (LW) Radio</b>            |                                                              |

|                           |                             |
|---------------------------|-----------------------------|
| Frequency Range           | 153kHz - 279kHz             |
| Usable Sensitivity        | 32dB/ V (S/N 20dB)          |
| <b>CD Player</b>          |                             |
| Sampling Frequency        | 8 Times Oversampling        |
| DA Converter              | 1bit DAC System             |
| Pick-Up Type              | Astigma 3-beam              |
| Light Source              | Semiconductor Laser         |
| Wave Length               | 790nm                       |
| Frequency Response        | 20Hz to 20kHz ( $\pm 1$ dB) |
| Signal to Noise Ratio     | 96dB                        |
| Total Harmonic Distortion | 0.01% (1kHz)                |
| Wow and Flutter           | Below measurable limits     |
| Channel Separation        | 75dB                        |
| <br>                      |                             |
| Dimensions**              | 178×50×160mm                |
| Weight**                  | 1.4kg                       |

\* Specifications and the design are subject to possible modification without notice due to improvements.

\*\* Dimensions and Weight shown are approximate.

-Above specifications comply with EIA standards.

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

## 1. ABOUT LEAD FREE SOLDER (PbF)

**Distinction of PbF PCB:**

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

**Caution :**

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to

heat too long.

- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C)
- This lead free solder will be used for the products after serial No. 1,000,001.

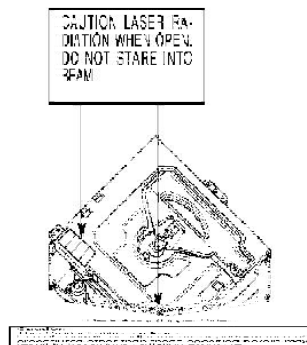
## 2. LASER PRODUCTS

### CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.

Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.



## 3. FEATUERS

- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 18-FM, 6-AM presets with preset scan.
- Removable face plate.
- MP3/WMA Playback from CD-R/RW.

## 4. REPLACING THE FUSE

Use fuses of the same specified rating (15amps). Using different substitutes or fuses with higher ratings, or connecting the product directly without a fuse, could cause fire or damage to the stereo unit.

## 5. MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry, a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

## 6. NOTES

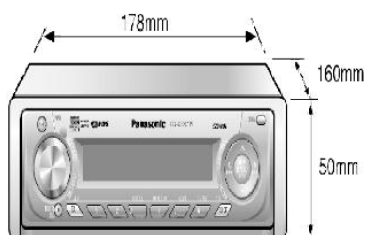
[RADIO BLOCK]

Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.

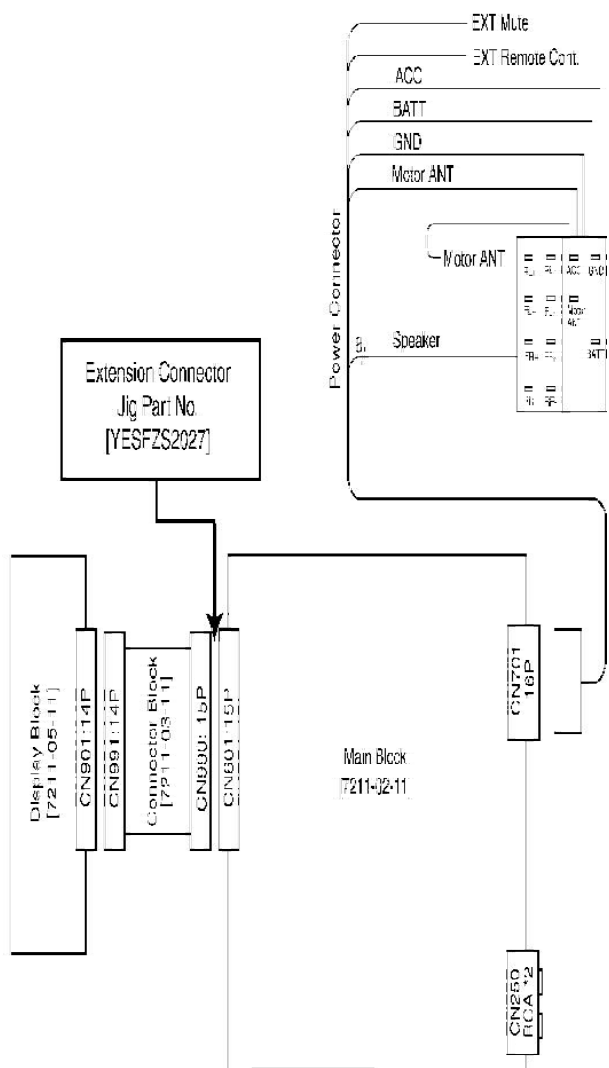
[CD DECK BLOCK]

This model has no servo alignment points because microcomputer controls the servo circuit.

## 7. DIMENSIONS



## 8. WIRING CONNECTION



## 9. TERMINALS DESCRIPTION

### 9.1. Main Block

IC601 : YESAM285

| Pin No. | Port               | Description                         | I/O | (V) |     |     |
|---------|--------------------|-------------------------------------|-----|-----|-----|-----|
|         |                    |                                     |     | FM  | AM  | CD  |
| 1       | (NC)               | -                                   | -   | -   | -   | -   |
| 2       | VSM                | Radio signal strength               | I   | 0   | 0   | 0   |
| 3       | SD/ST              | Radio station detect                | I   | 0.3 | 0   | 0.8 |
| 4       | AVSS               | Ground                              | -   | 0   | 0   | 0   |
| 5       | SCL                | Audio control serial clock          | O   | 4.9 | 4.9 | 4.9 |
| 6       | SDA                | Audio control data                  | O   | 4.9 | 4.9 | 4.9 |
| 7       | AVREF              | (Conecting to +5V)                  | -   | 4.9 | 4.9 | 4.9 |
| 8       | CD SO              | CD data output                      | I   | 2.1 | 2.3 | 1.7 |
| 9       | CD SI              | CD data input                       | O   | 0   | 0   | 3.3 |
| 10      | CD SCK             | CD clock                            | O   | 4.7 | 4.7 | 4.7 |
| 11      | CDC DATA/ XM-TX SO | CD changer data/ XM radio TX signal | I   | 0   | 0   | 0   |
| 12      | XM-RX SI           | XM radio RX signal                  | O   | 4.8 | 4.8 | 4.8 |
| 13      | CDC CLK            | CD changer clock                    | I   | 0   | 0   | 0   |
| 14      | CDC REM            | CD changer remote                   | O   | 4.8 | 4.8 | 4.8 |
| 15      | BZ OUT             | Buzzer out                          | O   | 4.4 | 4.4 | 4.4 |
| 16      | LCD DO             | LCD data                            | I   | 4.8 | 4.8 | 4.8 |
| 17      | LCD DI             | LCD data                            | O   | 4.7 | 4.7 | 4.7 |
| 18      | LCD CLK            | LCD Clock                           | O   | 4.8 | 4.8 | 4.8 |
| 19      | CD AO              | CD mute                             | I   | 0   | 0   | 4.8 |
| 20      | CD RST             | CD reset                            | O   | 4.8 | 4.8 | 4.8 |
| 21      | CD STB             | CD strobe                           | I   | 3.7 | 3.7 | 3.7 |
| 22      | CDC SENS (NC)      | -                                   | -   | -   | -   | -   |
| 23      | PLL DO             | PLL data                            | I   | 4.9 | 4.9 | 4.9 |
| 24      | PLL CLK            | PLL data clock                      | O   | 4.8 | 4.8 | 4.8 |
| 25      | PLL DI             | PLL data                            | O   | 0   | 0   | 0   |
| 26      | PLL CE             | PLL chip select                     | O   | 0   | 0   | 0   |
| 27      | (NC)               | -                                   | -   | -   | -   | -   |
| 28      | (NC)               | -                                   | -   | -   | -   | -   |
| 29      | (NC)               | -                                   | -   | -   | -   | -   |
| 30      | (NC)               | -                                   | -   | -   | -   | -   |
| 31      | (NC)               | -                                   | -   | -   | -   | -   |
| 32      | (NC)               | -                                   | -   | -   | -   | -   |
| 33      | VSS1               | Ground                              | -   | 0   | 0   | 0   |
| 34      | RDS DATA           | RDS data                            | I   | 2.8 | 0   | 0   |
| 35      | S-LED              | LED control                         | O   | 0   | 0   | 0   |
| 36      | LCD CE             | LCD chip enable                     | O   | 0   | 0   | 0   |

| Pin No. | Port              | Description                              | I/O | (V) |     |     |
|---------|-------------------|------------------------------------------|-----|-----|-----|-----|
|         |                   |                                          |     | FM  | AM  | CD  |
| 37      | LCD 5V CNT        | Display 5V control                       | O   | 0   | 0   | 0   |
| 38      | EJ ILL            | LED control (EJ/ILL)                     | O   | 4.8 | 4.8 | 4.8 |
| 39      | OP/CL             | Panel open/close detect                  | I   | 4.9 | 4.9 | 4.9 |
| 40      | (NC)              | -                                        | -   | -   | -   | -   |
| 41      | EJECT             | EJECT switch                             | I   | 4.9 | 4.9 | 4.9 |
| 42      | ROTARY 1          | Rotary encoder input 1                   | I   | 4.8 | 4.8 | 4.8 |
| 43      | ROTARY 2          | Rotary encoder input 2                   | I   | 4.7 | 4.7 | 4.7 |
| 44      | (NC)              | -                                        | -   | -   | -   | -   |
| 45      | (NC)              | -                                        | -   | -   | -   | -   |
| 46      | PANEL             | Panel detection                          | I   | 4.6 | 4.6 | 4.6 |
| 47      | STBY              | Power IC stundby control                 | O   | 4.8 | 4.8 | 4.8 |
| 48      | EEPROM CE         | (Not Used)                               | -   | -   | -   | -   |
| 49      | EEPROM SK (NC)    | -                                        | -   | -   | -   | -   |
| 50      | EEPROM DI (NC)    | -                                        | -   | -   | -   | -   |
| 51      | EEPROM DO         | (Not Used)                               | -   | -   | -   | -   |
| 52      | CDC1/2 (NC)       | -                                        | -   | -   | -   | -   |
| 53      | INV CNT           | Illumination control                     | O   | 4.8 | 4.8 | 4.8 |
| 54      | AMP CNT           | Amp power control                        | O   | 4.8 | 4.8 | 4.8 |
| 55      | ANT CNT           | Antenna power control                    | O   | 4.8 | 4.8 | 4.8 |
| 56      | EXT.MUTE          | External mute                            | O   | 4.8 | 4.8 | 4.8 |
| 57      | MAIN CNT          | Main power control                       | O   | 4.8 | 4.8 | 4.8 |
| 58      | AMP MUTE          | Amp mute control                         | O   | 4.8 | 4.8 | 4.8 |
| 59      | AF MUTE           | AF mute control                          | O   | 4.8 | 4.8 | 4.8 |
| 60      | RESET             | Reset                                    | I   | 4.8 | 4.8 | 4.8 |
| 61      | RDS CLK           | RDS clock                                | I   | 2.8 | 2.8 | 2.8 |
| 62      | (NC)              | -                                        | -   | -   | -   | -   |
| 63      | (NC)              | -                                        | -   | -   | -   | -   |
| 64      | RM DATA           | Remote control data                      | I   | 4.8 | 4.8 | 4.8 |
| 65      | BATT              | Battery voltage detection                | I   | 4.5 | 4.5 | 4.5 |
| 66      | CDC STB/ / XM DET | CD Changer strobe/ XM receiver detection | I   | 4.8 | 4.8 | 4.8 |
| 67      | VSS0              | Ground                                   | -   | 0   | 0   | 0   |
| 68      | VDD1              | +5V power supply                         | -   | 4.8 | 4.8 | 4.8 |
| 69      | X2                | Crystal oscillator                       | -   | 2.9 | 2.9 | 2.9 |

| Pin No. | Port  | Description            | I/O | (V) |     |     |
|---------|-------|------------------------|-----|-----|-----|-----|
|         |       |                        |     | FM  | AM  | CD  |
| 70      | X1    | Crystal oscillator     | -   | 2.3 | 2.3 | 2.3 |
| 71      | TEST  | (TEST terminal)        | -   | 0   | 0   | 0   |
| 72      | XT2   | Crystal oscillator     | -   | 2.7 | 2.7 | 2.7 |
| 73      | XT1   | Crystal oscillator     | -   | 2   | 2   | 2   |
| 74      | VDD0  | +5V power supply       | -   | 4.9 | 4.9 | 4.9 |
| 75      | AVDD  | +5V power supply       | -   | 4.8 | 4.8 | 4.8 |
| 76      | INI A | Mode setting A         | I   | 0   | 0   | 0   |
| 77      | INI B | Mode setting B         | I   | 4.8 | 4.8 | 4.8 |
| 78      | ACC   | ACC detection          | I   | 4.9 | 4.9 | 4.9 |
| 79      | (NC)  | (Connecting to ground) | -   | 0   | 0   | 0   |
| 80      | LEVEL | Audio signal           | I   | 0   | 0   | 0   |

## 9.2. Display Block

IC901 : YEAMLC75854T

| Pin No. | Port     | Description            | I/O | (V) |
|---------|----------|------------------------|-----|-----|
| 1-16    | SEG1-16  | LCD segment data       | O   | 2.5 |
| 17-39   | SEG19-41 | LCD segment data       | O   | 2.5 |
| 40-43   | COM1-4   | LCD common             | O   | 2.5 |
| 44,45   | SEG17,18 | LCD segment data       | O   | 2.5 |
| 46-49   | KS3-6    | Key scan               | O   | 5.0 |
| 50-54   | KI1-5    | Key data               | I   | 0   |
| 55      | TEST     | (Connecting to ground) | -   | 0   |
| 56      | VDD      | +5V power supply       | -   | 5.0 |
| 57      | VDD1     | VDD1 filter terminal   | -   | 3.3 |
| 58      | VDD2     | VDD2 filter terminal   | -   | 1.7 |
| 59      | VSS      | Ground                 | -   | 0   |
| 60      | OSC      | Oscillator terminal    | -   | 3.9 |
| 61      | DO       | Key data output        | O   | 5.0 |
| 62      | CE       | LCD driver chip enable | I   | 0   |
| 63      | CLK      | LCD clock              | I   | 4.9 |
| 64      | DI       | LCD data               | I   | 4.9 |

## 9.3. CD Servo Block

IC401 : YESAM348

| Pin No. | Port    | Descriptions                              | I/O | (V) |
|---------|---------|-------------------------------------------|-----|-----|
| 1       | CVSS1   | GND                                       | -   | 0   |
| 2       | -       | -                                         | -   | -   |
| 3       | CVSS2   | GND                                       | -   | 0   |
| 4       | DVDD1   | I/O system (3.3V) power supply            | -   | 3.3 |
| 5       | A10     | Address bus of FLASH ROM                  | O   | 0   |
| 6       | -       | -                                         | -   | -   |
| 7       | A11     | Address bus of FLASH ROM                  | O   | 3.3 |
| 8       | A12     |                                           | O   | 3.3 |
| 9       | A13     |                                           | O   | 3.3 |
| 10      | A14     |                                           | O   | 3.3 |
| 11      | A15     |                                           | O   | 3.3 |
| 12      | / CVDD1 | CORE CPU system (1.6V) power supply       | -   | 1.6 |
| 13      | -       | -                                         | -   | -   |
| 14      | DVSS1   | GND                                       | -   | 0   |
| 15      | CVSS3   | GND                                       | -   | 0   |
| 16      | / CVDD2 | I/O system (3.3V) power supply            | -   | 1.6 |
| 17      | -       | -                                         | -   | -   |
| 18      | -       | -                                         | -   | -   |
| 19      | READY   | -                                         | -   | 3.3 |
| 20      | /PS     | FLASH ROM selection signal                | O   | 3.3 |
| 21      | -       | -                                         | -   | -   |
| 22      | -       | -                                         | -   | -   |
| 23      | R/W     | Lead/light signal to FLASH ROM            | O   | 3.3 |
| 24      | / MSTRB | Memory access signal                      | O   | 3.3 |
| 25      | -       | -                                         | -   | -   |
| 26      | /MSC    | -                                         | -   | 3.3 |
| 27      | MUTE    | Mute signal output (H:Mute on)            | O   | 0   |
| 28      | -       | -                                         | -   | -   |
| 29      | -       | -                                         | -   | -   |
| 30      | /HOLD   | -                                         | -   | 3.3 |
| 31      | BIO     | SUBO input                                | I   | 0   |
| 32      | MP/MC   | Operation mode setting (external pull-up) | I   | 3.3 |
| 33      | DVDD2   | I/O system (3.3V) power supply            | -   | 3.3 |
| 34      | CVSS4   | GND                                       | -   | 0   |
| 35      | BD R1   | GND                                       | I   | 0   |
| 36      | -       | -                                         | -   | -   |
| 37      | CVSS5   | GND                                       | -   | 0   |
| 38      | -       | -                                         | -   | -   |

| Pin No. | Port     | Descriptions                        | I/O | (V) |
|---------|----------|-------------------------------------|-----|-----|
| 39      | -        | -                                   | -   | -   |
| 40      | DVSS2    | GND                                 | -   | 0   |
| 41      | CLK C M  | AUDIO bit clock input               | I   | 1.6 |
| 42      | SCK      | Clock input                         | I   | 3.3 |
| 43      | LRCK C M | AUDIO L/R identifying signal input  | I   | 1.6 |
| 44      | CDFS     | Serial frame sink signal input      | I   | 2.6 |
| 45      | DATA CM  | AUDIO serial data input             | I   | 1.6 |
| 46      | -        | -                                   | -   | -   |
| 47      | SI       | Serial data input                   | I   | 0   |
| 48      | CLK M C  | AUDIO bit clock output              | O   | 1.6 |
| 49      | SCK      | Clock input                         | I   | 3.3 |
| 50      | CVSS6    | GND                                 | -   | 0   |
| 51      | -        | -                                   | -   | -   |
| 52      | CVDD3    | CORE CPU system (1.6V) power supply | -   | 1.6 |
| 53      | LRCK M C | AUDIO L/R identifying signal output | O   | 1.6 |
| 54      | CDFS     | Serial frame sink signal input      | I   | 2.4 |
| 55      | -        | -                                   | -   | -   |
| 56      | DVDD3    | I/O system (3.3V) power supply      | -   | 3.3 |
| 57      | DVSS3    | GND                                 | -   | 0   |
| 58      | REST SW  | Mechanics deck REST SW input        | I   | 3.3 |
| 59      | DATA M C | AUDIO serial data output            | O   | 1.6 |
| 60      | SO       | Serial data output                  | O   | 1.2 |
| 61      | -        | -                                   | -   | -   |
| 62      | -        | -                                   | -   | -   |
| 63      | /NMI     | -                                   | -   | 3.3 |
| 64      | /INT0    | -                                   | -   | 3.3 |
| 65      | /INT1    | -                                   | -   | 3.3 |
| 66      | BLKCK    | Subcode block clock pulse input     | I   | 0   |
| 67      | /INT3    | -                                   | -   | 3.3 |
| 68      | CV DD4   | CORE CPU system (1.6V) power supply | -   | 1.6 |
| 69      | SW1      | Mechanics deck SW1 input            | I   | 0   |
| 70      | CVSS7    | GND                                 | -   | 0   |
| 71      | MCLK     | Clock output (To Servo DSP)         | O   | 3.3 |
| 72      | DVSS4    | GND                                 | -   | 0   |

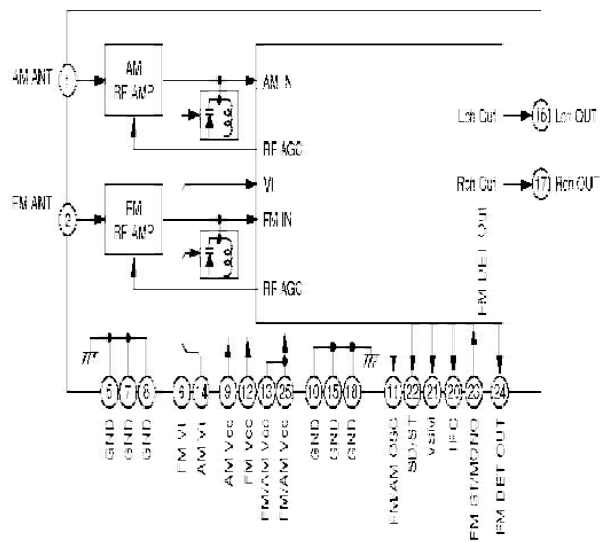
| Pin No. | Port      | Descriptions                              | I/O | (V) |
|---------|-----------|-------------------------------------------|-----|-----|
| 73      | MLD       | Command load signal output (To Servo DSP) | I   | 3.3 |
| 74      | MDATA     | Command data output (To Servo DSP)        | O   | 3.3 |
| 75      | DVDD4     | I/O system (3.3V) power supply            | -   | 3.3 |
| 76      | DVSS5     | GND                                       | -   | 0   |
| 77      | CLK MD1   | Clock mode setting (L fixation)           | I   | 0   |
| 78      | CLK MD2   | Clock mode setting (H fixation)           | I   | 3.3 |
| 79      | CLK MD3   | Clock mode setting (L fixation)           | I   | -   |
| 80      | -         | -                                         | -   | -   |
| 81      | SW2       | Mechanics deck SW2 input                  | I   | 0   |
| 82      | -         | -                                         | -   | -   |
| 83      | EMU0      | -                                         | -   | 0   |
| 84      | EMU/ OFF  | -                                         | -   | 3.3 |
| 85      | TDO       | -                                         | -   | 3.3 |
| 86      | TDI       | -                                         | -   | 0   |
| 87      | /TRST     | -                                         | -   | 3.3 |
| 88      | TCK       | -                                         | -   | 0   |
| 89      | TMS       | -                                         | -   | 3.3 |
| 90      | CVSS8     | GND                                       | -   | 3.3 |
| 91      | CVDD5     | CORE CPU system (1.6V) power supply       | -   | 0   |
| 92      | HPIENA    | GND                                       | I   | 1.6 |
| 93      | DVSS6     | GND                                       | -   | 0   |
| 94      | -         | -                                         | -   | -   |
| 95      | CLKENA    | Oscillation output Cainabl signal         | O   | 3.3 |
| 96      | X1        | Crystal Connection                        | O   | 0   |
| 97      | X2/ CLKIN | Crystal Connection                        | I   | 0   |
| 98      | RS        | Reset signal input                        | I   | 1   |
| 99      | D0        | Data base of FLASH ROM                    | I/O | 3.4 |
| 100     | D1        |                                           | I/O | 0   |
| 101     | D2        |                                           | I/O | 0   |
| 102     | D3        |                                           | I/O | 0   |
| 103     | D4        |                                           | I/O | 0   |
| 104     | D5        |                                           | I/O | 0   |
| 105     | A16       | Address bus of FLASH ROM                  | O   | 0   |
| 106     | DVSS7     | GND                                       | -   | 0   |
| 107     | A17       | Address bus of FLASH ROM                  | O   | 3.3 |
| 108     | A18       |                                           | O   | 0   |
| 109     | A19       | Address bus of FLASH ROM                  | O   | 0   |

| Pin No. | Port   | Descriptions                        | I/O | (V) |
|---------|--------|-------------------------------------|-----|-----|
| 110     | A20    |                                     | O   | 0   |
| 111     | CVSS9  | GND                                 | -   | 0   |
| 112     | DVDD5  | I/O system (3.3V) power supply      | -   | 3.3 |
| 113     | D6     | Data bus of FLASH ROM               | I/O | 0   |
| 114     | D7     |                                     | I/O | 0   |
| 115     | D8     |                                     | I/O | 0   |
| 116     | D9     |                                     | I/O | 0   |
| 117     | D10    |                                     | I/O | 0   |
| 118     | D11    | Data bus of FLASH ROM               | I/O | 0   |
| 119     | D12    |                                     | I/O | 0   |
| 120     | STAT   | Status signal input                 | I   | 0.4 |
| 121     | D13    | Data path of FLASH ROM              | I/O | 0   |
| 122     | D14    |                                     | I/O | 0   |
| 123     | D15    |                                     | I/O | 0   |
| 124     | -      | -                                   | -   | -   |
| 125     | CVDD6  | CORE CPU system (1.6V) power supply | -   | 1.6 |
| 126     | CVSS10 | GND                                 | -   | 0   |
| 127     | -      | -                                   | -   | -   |
| 128     | DVSS8  | I/O system (3.3V) power supply      | -   | 0   |
| 129     | -      | -                                   | -   | -   |
| 130     | DVDD6  | I/O system (3.3V) power supply      | -   | 3.3 |
| 131     | A0     | Address bus of FLASH ROM            | O   | 0   |
| 132     | A1     |                                     | O   | 0   |
| 133     | A2     |                                     | O   | 3.3 |
| 134     | A3     |                                     | O   | 3.3 |
| 135     | /RST   | Reset signal output (To Servo DSP)  | O   | 3.3 |
| 136     | A4     | Address bus of FLASH ROM            | O   | 3.3 |
| 137     | A5     |                                     | O   | 0   |
| 138     | A6     |                                     | O   | 3.3 |
| 139     | A7     |                                     | O   | 3.3 |
| 140     | A8     |                                     | O   | 0   |
| 141     | A9     |                                     | O   | 3.3 |
| 142     | CVDD7  | CORE CPU system (1.6V) power supply | -   | 1.6 |
| 143     | -      | -                                   | -   | -   |
| 144     | DVSS9  | GND                                 | -   | 0   |

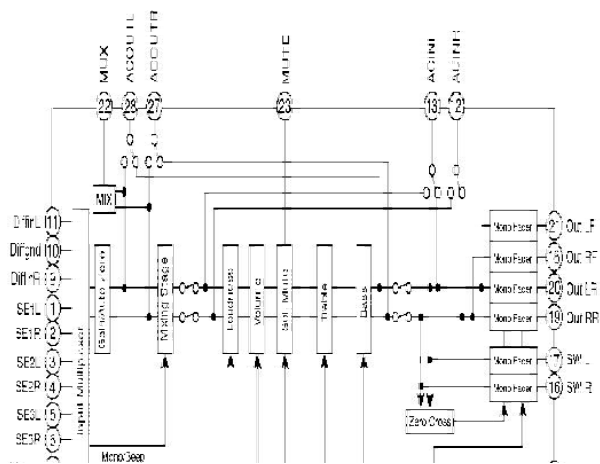
## 10. PACKAGE AND IC BLOCK DIAGRAM

### 10.1. Main Block

PA051 : YESAP403

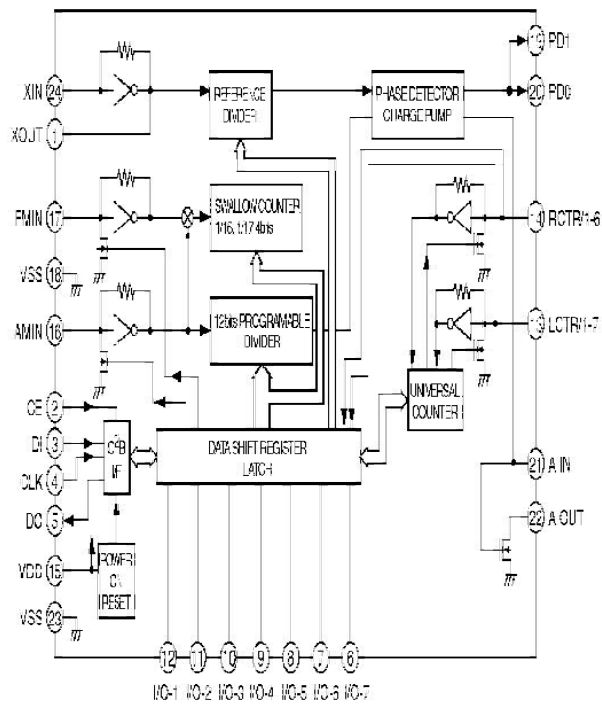


IC201 : C1BB00000543

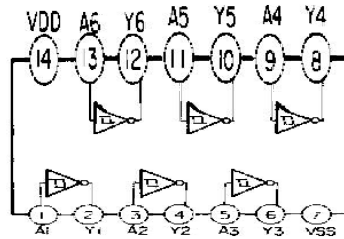


IC271 : C1EA00000041

### IC401 : YESAM284

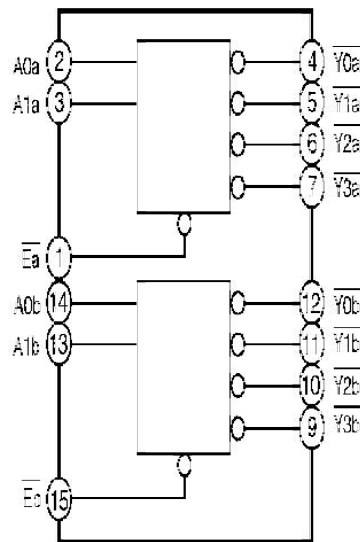


### IC650 : YESAM265

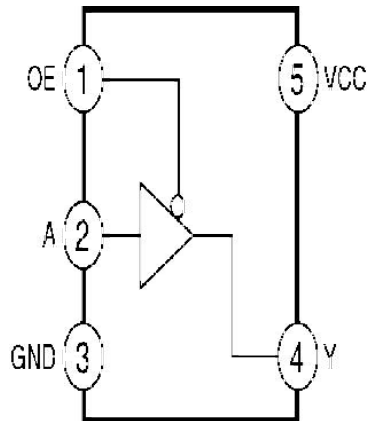


### IC681 : YESAM273





IC405 : YESAM270



IC404 : YESAM178

## 11. REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by     mark have special characteristics important for safety. When replacing any of

**these components, use only manufacturer's specified parts.**

- 3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
- 4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
  - Order intake period is basically six months after the first shipment.**

| Ref. No.                       | Part No.     | Part Name & Description | Remarks |
|--------------------------------|--------------|-------------------------|---------|
| <b>[7211-02-11] Main Block</b> |              |                         |         |
| <b>IC's and TRANSISTORS</b>    |              |                         |         |
| IC201                          | C1BB00000543 | IC                      |         |
| IC231                          | C0ABBB000038 | IC                      |         |
| IC271                          | C1EA00000041 | IC                      |         |
| IC401                          | YESAM284     | IC                      |         |
| IC501                          | YESAM283     | IC                      |         |
| IC601                          | YESAM285     | IC                      |         |
| IC650                          | YESAM265     | IC                      |         |
| IC681                          | YESAM273     | IC                      |         |
| IC710                          | YESAM277     | IC                      |         |
| IC740                          | YESAM269     | IC                      |         |
| IC750                          | YESAM267     | IC                      |         |
| IC755                          | YESAM263     | IC                      |         |
| PA051                          | YESAP403     | Tuner Pack              |         |
| Q052                           | YESAN082     | Transistor              |         |
| Q054                           | B1GBCFNN0009 | Transistor              |         |
| Q055                           | YESAN082     | Transistor              |         |
| Q066                           | YESAN091     | Transistor              |         |
| Q262                           | YESAN085     | Transistor              |         |
| Q266                           | YESAN085     | Transistor              |         |
| Q362                           | YESAN085     | Transistor              |         |
| Q366                           | YESAN085     | Transistor              |         |
| Q411                           | YEAN2SK536TB | FET                     |         |
| Q660                           | YESAN081     | Transistor              |         |
| Q661                           | YESAN080     | Transistor              |         |
| Q670                           | B1GBCFNN0009 | Transistor              |         |
| Q671                           | B1GDCFJJ0008 | Transistor              |         |
| Q672                           | YESAN092     | Transistor              |         |
| Q681                           | YESAN084     | Transistor              |         |
| Q720                           | YESAN093     | FET                     |         |
| Q721                           | YESAN084     | Transistor              |         |
| Q730                           | YESAN093     | FET                     |         |
| Q731                           | YESAN084     | Transistor              |         |
| Q740                           | YESAN079     | Transistor              |         |
| Q751                           | YESAN087     | Transistor              |         |
| Q761                           | YESAN090     | Transistor              |         |
| Q770                           | YESAN088     | Transistor              |         |
|                                |              |                         |         |

| Ref. No.          | Part No.     | Part Name & Description  | Remarks |
|-------------------|--------------|--------------------------|---------|
| <b>DIODEs</b>     |              |                          |         |
| D051              | YESAD143     | Diode                    |         |
| D052              | YESAD143     | Diode                    |         |
| D201              | YESAD133     | Zener Diode              |         |
| D270              | YESAD146     | Diode                    |         |
| D271              | YESAD146     | Diode                    |         |
| D272              | YESAD146     | Diode                    |         |
| D273              | YESAD146     | Diode                    |         |
| D274              | YESAD146     | Diode                    |         |
| D275              | YESAD146     | Diode                    |         |
| D276              | YESAD146     | Diode                    |         |
| D277              | YESAD146     | Diode                    |         |
| D601              | YESAD143     | Diode                    |         |
| D602              | YESAD133     | Zener Diode              |         |
| D603              | YESAD133     | Zener Diode              |         |
| D604              | YESAD133     | Zener Diode              |         |
| D605              | YESAD133     | Zener Diode              |         |
| D606              | YESAD133     | Zener Diode              |         |
| D607              | YESAD133     | Zener Diode              |         |
| D608              | YESAD133     | Zener Diode              |         |
| D610              | YESAD143     | Diode                    |         |
| D636              | YESAD144     | Diode                    |         |
| D637              | YESAD143     | Diode                    |         |
| D638              | YESAD119     | Zener Diode              |         |
| D670              | YESAD148     | LED                      |         |
| D681              | YESAD149     | Diode                    |         |
| D701              | YESAD139     | Diode                    |         |
| D702              | YESAD119     | Zener Diode              |         |
| D710              | YESAD144     | Diode                    |         |
| D720              | YESAD146     | Diode                    |         |
| D740              | YESAD146     | Diode                    |         |
| D741              | YESAD118     | Diode                    |         |
| D750              | YESAD141     | Diode                    |         |
| D760              | YESAD146     | Diode                    |         |
| D761              | YESAD140     | Diode                    |         |
| D770              | YESAD123     | Zener Diode              |         |
| D790              | YESAD143     | Diode                    |         |
|                   |              |                          |         |
|                   |              |                          |         |
| <b>CAPACITORs</b> |              |                          |         |
| C051              | YECUS1H470JC | Ceramic, 47pF 50WV       |         |
| C053              | YESCC234     | Ceramic, 0.01 F 50WV     |         |
| C055              | YESCC234     | Ceramic, 0.01 F 50WV     |         |
| C061              | YESCC327     | Ceramic, 0.018 F 50WV    |         |
| C062              | YESCC327     | Ceramic, 0.018 F 50WV    |         |
| C065              | YESCC233     | Ceramic, 0.001 F 50WV    |         |
| C066              | YESCC226     | Ceramic, 470pF 50WV      |         |
| C067              | YESCC234     | Ceramic, 0.01 F 50WV     |         |
| C203              | YESCC314     | Electrolytic, 3.3 F 50WV |         |
| C208              | YESCC230     | Ceramic, 0.33 F 16WV     |         |
| C210              | YESCC228     | Ceramic, 0.1 F 16WV      |         |
| C220              | YESCC375     | Electrolytic, 2.2 F 50WV |         |

| Ref. No. | Part No.     | Part Name & Description         | Remarks |
|----------|--------------|---------------------------------|---------|
| C234     | YESCC228     | Ceramic, 0.1 $\mu$ F 16WV       |         |
| C235     | YESCC284     | Ceramic, 0.18 $\mu$ F 50WV      |         |
| C237     | YESCC319     | Ceramic, 0.082 $\mu$ F 50WV     |         |
| C238     | YESCC392     | Electrolytic, 22 $\mu$ F 10WV   |         |
| C240     | YESCC228     | Ceramic, 0.1 $\mu$ F 16WV       |         |
| C261     | YESCC372     | Electrolytic, 4.7 $\mu$ F 25WV  |         |
| C263     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C265     | YESCC372     | Electrolytic, 4.7 $\mu$ F 25WV  |         |
| C267     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C268     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C269     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C271     | YESCC235     | Ceramic, 0.0047 $\mu$ F 50WV    |         |
| C272     | YESCC235     | Ceramic, 0.0047 $\mu$ F 50WV    |         |
| C276     | YESCC393     | Electrolytic, 47 $\mu$ F 16WV   |         |
| C277     | YESCC229     | Ceramic, 1 $\mu$ F 16WV         |         |
| C278     | YESCC228     | Ceramic, 0.1 $\mu$ F 16WV       |         |
| C279     | YESCC368     | Electrolytic, 2200 $\mu$ F 16WV |         |
| C280     | YESCC191     | Ceramic, 2.2 $\mu$ F 50WV       |         |
| C281     | YESCC191     | Ceramic, 2.2 $\mu$ F 50WV       |         |
| C292     | YESCC234     | Ceramic, 0.01 $\mu$ F 50WV      |         |
| C303     | YESCC314     | Electrolytic, 3.3 $\mu$ F 50WV  |         |
| C308     | YESCC230     | Ceramic, 0.33 $\mu$ F 16WV      |         |
| C309     | YESCC333     | Electrolytic, 100 $\mu$ F 16WV  |         |
| C310     | YESCC313     | Electrolytic, 220 $\mu$ F 10WV  |         |
| C320     | YESCC375     | Electrolytic, 2.2 $\mu$ F 50WV  |         |
| C325     | YECUS1H104KX | Ceramic, 0.1 $\mu$ F 50WV       |         |
| C339     | YESCC231     | Ceramic, 0.022 $\mu$ F 25WV     |         |
| C361     | YESCC372     | Electrolytic, 4.7 $\mu$ F 25WV  |         |
| C363     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C365     | YESCC372     | Electrolytic, 4.7 $\mu$ F 25WV  |         |
| C367     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C368     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C369     | YECUS1C474KX | Ceramic, 0.47 $\mu$ F 16WV      |         |
| C371     | YESCC235     | Ceramic, 0.0047 $\mu$ F 50WV    |         |
| C372     | YESCC235     | Ceramic, 0.0047 $\mu$ F 50WV    |         |
| C378     | YESCC228     | Ceramic, 0.1 $\mu$ F 16WV       |         |
| C401     | YESCC219     | Ceramic, 10pF 50WV              |         |
| C402     | YESCC245     | Ceramic, 12pF 50WV              |         |
| C403     | YESCC376     | Electrolytic, 100 $\mu$ F 6.3WV |         |
| C404     | YESCC234     | Ceramic, 0.01 $\mu$ F 50WV      |         |
| C405     | F1J1H101A025 | Ceramic, 100pF 50WV             |         |
| C411     | YESCC234     | Ceramic, 0.01 $\mu$ F 50WV      |         |

| Ref. No. | Part No.     | Part Name & Description          | Remarks |
|----------|--------------|----------------------------------|---------|
| C412     | YESCC344     | Ceramic, 0.015 $\mu$ F 50WV      |         |
| C413     | ECQV1H104JL2 | Plastic Film, 0.1 $\mu$ F 50WV   |         |
| C417     | YESCC371     | Electrolytic, 680 $\mu$ F 16WV   |         |
| C421     | F1J1H101A025 | Ceramic, 100pF 50WV              |         |
| C430     | YESCC313     | Electrolytic, 220 $\mu$ F 10WV   |         |
| C501     | YESCC223     | Ceramic, 27pF 50WV               |         |
| C502     | YESCC219     | Ceramic, 10pF 50WV               |         |
| C505     | YESCC375     | Electrolytic, 2.2 $\mu$ F 50WV   |         |
| C506     | YESCC244     | Ceramic, 0.01 $\mu$ F 50WV       |         |
| C507     | YESCC224     | Ceramic, 270pF 50WV              |         |
| C508     | YESCC366     | Electrolytic, 10 $\mu$ F 16WV    |         |
| C509     | YESCC392     | Electrolytic, 22uF 10WV          |         |
| C602     | YESCC378     | Electrolytic, 1000 $\mu$ F 6.3WV |         |
| C605     | YESCC234     | Ceramic, 0.01 $\mu$ F 50WV       |         |
| C628     | YESCC228     | Ceramic, 0.1 $\mu$ F 16WV        |         |
| C629     | YESCC228     | Ceramic, 0.1 $\mu$ F 16WV        |         |
| C631     | YESCC229     | Ceramic, 1 $\mu$ F 16WV          |         |
| C632     | YESCC377     | Electrolytic, 47 $\mu$ F 6.3WV   |         |
| C634     | YECUS1H220JC | Ceramic, 22pF 50WV               |         |
| C635     | YECUS1H220JC | Ceramic, 22pF 50WV               |         |
| C636     | YESCC191     | Ceramic, 2.2 $\mu$ F 50WV        |         |
| C637     | YESCC233     | Ceramic, 0.001 $\mu$ F 50WV      |         |
| C638     | YESCC191     | Ceramic, 2.2 $\mu$ F 50WV        |         |
| C660     | YESCC375     | Electrolytic, 2.2 $\mu$ F 50WV   |         |
| C670     | YESCC234     | Ceramic, 0.01 $\mu$ F 50WV       |         |
| C672     | YESCC394     | Electrolytic, 4.7uF 50WV         |         |
| C681     | YECUS1H104KX | Ceramic, 0.1 F 50WV              |         |
| C682     | YECUS1H104KX | Ceramic, 0.1 F 50WV              |         |
| C683     | YECUS1H104KX | Ceramic, 0.1 F 50WV              |         |
| C701     | YESCC374     | Electrolytic, 1 F 50WV           |         |
| C710     | YESCC284     | Ceramic, 0.18 F 50WV             |         |
| C711     | YESCC234     | Ceramic, 0.01 F 50WV             |         |
| C740     | YESCC369     | Electrolytic, 470 F 16WV         |         |
| C741     | YESCC379     | Electrolytic, 150 F 6.3WV        |         |
| C751     | YESCC370     | Electrolytic, 1000 F 16WV        |         |
| C752     | YESCC365     | Electrolytic, 120 F 10WV         |         |
| C753     | YESCC377     | Electrolytic, 47 F 6.3WV         |         |
| C755     | YESCC228     | Ceramic, 0.1 F 16WV              |         |
| C756     | YESCC380     | Electrolytic, 39 F 6.3WV         |         |
| C757     | YECUS1H104KX | Ceramic, 0.1 F 50WV              |         |
| C770     | YESCC367     | Electrolytic, 100 F 16WV         |         |
| C790     | YESCC228     | Ceramic, 0.1 F 16WV              |         |
|          |              |                                  |         |
|          |              |                                  |         |

| Ref. No.         | Part No.    | Part Name & Description                                                                              | Remarks |
|------------------|-------------|------------------------------------------------------------------------------------------------------|---------|
| <b>RESISTORS</b> |             |                                                                                                      |         |
| J712             | YESRG204    | Carbon, 560  1/4W   |         |
| J714             | YESRG204    | Carbon, 560  1/4W   |         |
| J801-829         | YESRG132    | Chip, 0  1/4W       |         |
| J830             | ERJ8GX0R00V | Chip, 0  1/4W       |         |
| J831             | YESRG132    | Chip, 0  1/4W       |         |
| J832             | YESRG132    | Chip, 0  1/4W       |         |
| J833             | YESRG132    | Chip, 0  1/4W       |         |
| J834             | YESRG132    | Chip, 0  1/4W       |         |
| J836             | YESRG132    | Chip, 0  1/4W       |         |
| J838             | YESRG132    | Chip, 0  1/4W       |         |
| J839             | YESRG132    | Chip, 0  1/4W       |         |
| J839             | ERJ8GX0R00V | Chip, 0  1/4W       |         |
| J901             | YESRG093    | Chip, 0  1/8W       |         |
| J902             | YESRG093    | Chip, 0  1/8W       |         |
| J903             | YESRG093    | Chip, 0  1/8W       |         |
| J905             | YESRG093    | Chip, 0  1/8W       |         |
| J906             | YESRG093    | Chip, 0  1/8W       |         |
| J907             | YESRG093    | Chip, 0  1/8W       |         |
| J908             | YESRG093    | Chip, 0  1/8W     |         |
| J909             | YESRG093    | Chip, 0  1/8W     |         |
| J910             | YESRG093    | Chip, 0  1/8W     |         |
| J911             | YESRG093    | Chip, 0  1/8W     |         |
| J912             | YESRG093    | Chip, 0  1/8W     |         |
| L291             | YESRG093    | Chip, 0  1/8W     |         |
| R050             | YESRG127    | Chip, 5.6  1/8W   |         |
| R051             | YESRG132    | Chip, 0  1/4W     |         |
| R052             | YESRG094    | Chip, 100  1/8W   |         |
| R052             | YESRG094    | Chip, 100  1/8W   |         |
| R053             | YESRG246    | Chip, 120  1/8W   |         |
| R058             | YESRG093    | Chip, 0  1/8W     |         |
| R059             | YESRG097    | Chip, 100k  1/8W  |         |
| R060             | YESRG115    | Chip, 33k  1/8W   |         |
| R065             | YESRG117    | Chip, 3.9k  1/8W  |         |
| R066             | YESRG182    | Chip, 330k  1/10W |         |
| R067             | YESRG108    | Chip, 2.2k  1/8W  |         |
| R068             | YESRG095    | Chip, 1k  1/8W    |         |
| R202             | YESRG184    | Chip, 4.3k  1/8W  |         |
| R203             | YESRG115    | Chip, 33k  1/8W   |         |
| R208             | YESRG105    | Chip, 18k  1/8W   |         |
| R225             | YESRG205    | Carbon, 1k  1/4W  |         |
| R226             | YESRG205    | Carbon, 1k  1/4W  |         |
| R235             | YESRG093    | Chip, 0  1/8W     |         |
| R237             | YESRG096    | Chip, 10k  1/8W   |         |
| R238             | YESRG115    | Chip, 33k  1/8W   |         |
| R239             | YESRG097    | Chip, 100k  1/8W  |         |
| R261             | YESRG138    | Chip, 180  1/4W   |         |

| Ref. No. | Part No. | Part Name & Description    | Remarks |
|----------|----------|----------------------------|---------|
| R262     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R263     | YESRG124 | Chip, 560 $\Omega$ 1/8W    |         |
| R265     | YESRG103 | Chip, 180 $\Omega$ 1/8W    |         |
| R266     | YESRG135 | Chip, 10k $\Omega$ 1/4W    |         |
| R267     | YESRG124 | Chip, 560 $\Omega$ 1/8W    |         |
| R275     | YESRG109 | Chip, 22k $\Omega$ 1/8W    |         |
| R280     | YESRG212 | Chip, 130 $\Omega$ 1/8W    |         |
| R291     | YESRG093 | Chip, 0 $\Omega$ 1/8W      |         |
| R302     | YESRG184 | Chip, 4.3k $\Omega$ 1/8W   |         |
| R303     | YESRG115 | Chip, 33k $\Omega$ 1/8W    |         |
| R308     | YESRG105 | Chip, 18k $\Omega$ 1/8W    |         |
| R325     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R326     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R338     | YESRG148 | Chip, 47k $\Omega$ 1/4W    |         |
| R361     | YESRG103 | Chip, 180 $\Omega$ 1/8W    |         |
| R362     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R363     | YESRG124 | Chip, 560 $\Omega$ 1/8W    |         |
| R365     | YESRG103 | Chip, 180 $\Omega$ 1/8W    |         |
| R366     | YESRG135 | Chip, 10k $\Omega$ 1/4W    |         |
| R367     | YESRG124 | Chip, 560 $\Omega$ 1/8W    |         |
| R375     | YESRG137 | Chip, 12k $\Omega$ 1/4W    |         |
| R391     | YESRG093 | Chip, 0 $\Omega$ 1/8W      |         |
| R401     | YESRG154 | Chip, 10 $\Omega$ 1/4W     |         |
| R402     | YESRG124 | Chip, 560 $\Omega$ 1/8W    |         |
| R403     | YESRG100 | Chip, 1.5k $\Omega$ 1/8W   |         |
| R404     | YESRG093 | Chip, 0 $\Omega$ 1/8W      |         |
| R405     | YESRG206 | Carbon, 2.2k $\Omega$ 1/4W |         |
| R406     | YESRG208 | Carbon, 47k $\Omega$ 1/4W  |         |
| R407     | YESRG104 | Chip, 1.8k $\Omega$ 1/8W   |         |
| R408     | YESRG108 | Chip, 2.2k $\Omega$ 1/8W   |         |
| R409     | YESRG108 | Chip, 2.2k $\Omega$ 1/8W   |         |
| R410     | YESRG108 | Chip, 2.2k $\Omega$ 1/8W   |         |
| R411     | YESRG108 | Chip, 2.2k $\Omega$ 1/8W   |         |
| R412     | YESRG119 | Chip, 4.7k $\Omega$ 1/8W   |         |
| R413     | YESRG120 | Chip, 47k $\Omega$ 1/8W    |         |
| R416     | YESRG108 | Chip, 2.2k $\Omega$ 1/8W   |         |
| R417     | YESRG189 | Chip, 100 $\Omega$ 1/4W    |         |
| R501     | YESRG180 | Chip, 2.2M $\Omega$ 1/10W  |         |
| R506     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R601     | YESRG147 | Chip, 4.7k $\Omega$ 1/4W   |         |
| R602     | YESRG134 | Chip, 1k $\Omega$ 1/4W     |         |
| R603     | YESRG120 | Chip, 47k $\Omega$ 1/8W    |         |
| R604     | YESRG120 | Chip, 47k $\Omega$ 1/8W    |         |
| R608     | YESRG119 | Chip, 4.7k $\Omega$ 1/8W   |         |
| R609     | YESRG093 | Chip, 0 $\Omega$ 1/8W      |         |
| R610     | YESRG214 | Chip, 180k $\Omega$ 1/8W   |         |
| R611     | YESRG135 | Chip, 10k $\Omega$ 1/4W    |         |

| Ref. No. | Part No. | Part Name & Description    | Remarks |
|----------|----------|----------------------------|---------|
| R612     | YESRG189 | Chip, 100 $\Omega$ 1/4W    |         |
| R613     | YESRG244 | Carbon, 100k $\Omega$ 1/4W |         |
| R614     | YESRG244 | Carbon, 100k $\Omega$ 1/4W |         |
| R615     | YESRG134 | Chip, 1k $\Omega$ 1/4W     |         |
| R616     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R617     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R618     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R619     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R620     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R621     | YESRG134 | Chip, 1k $\Omega$ 1/4W     |         |
| R622     | YESRG136 | Chip, 100k $\Omega$ 1/4W   |         |
| R623     | YESRG097 | Chip, 100k $\Omega$ 1/8W   |         |
| R624     | YESRG097 | Chip, 100k $\Omega$ 1/8W   |         |
| R625     | YESRG097 | Chip, 100k $\Omega$ 1/8W   |         |
| R626     | YESRG097 | Chip, 100k $\Omega$ 1/8W   |         |
| R627     | YESRG147 | Chip, 4.7k $\Omega$ 1/4W   |         |
| R628     | YESRG131 | Chip, 8.2k $\Omega$ 1/8W   |         |
| R629     | YESRG101 | Chip, 150k $\Omega$ 1/8W   |         |
| R630     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R633     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R634     | YESRG126 | Chip, 560k $\Omega$ 1/8W   |         |
| R636     | YESRG095 | Chip, 1k $\Omega$ 1/8W     |         |
| R637     | YESRG120 | Chip, 47k $\Omega$ 1/8W    |         |
| R638     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R639     | YESRG096 | Chip, 10k $\Omega$ 1/8W    |         |
| R640     | YESRG113 | Chip, 27k $\Omega$ 1/8W    |         |
| R660     | YESRG248 | Chip, 390 ohms 1/8W        |         |
| R661     | YESRG112 | Chip, 2.7k 1/8W            |         |
| R662     | YESRG120 | Chip, 47k 1/8W             |         |
| R668     | YESRG095 | Chip, 1k 1/8W              |         |
| R670     | YESRG128 | Chip, 680 1/8W             |         |
| R671     | YESRG139 | Chip, 180k 1/4W            |         |
| R672     | YESRG095 | Chip, 1k 1/8W              |         |
| R673     | YESRG127 | Chip, 5.6 1/8W             |         |
| R674     | YESRG095 | Chip, 1k 1/8W              |         |
| R676     | YESRG095 | Chip, 1k 1/8W              |         |
| R677     | YESRG095 | Chip, 1k 1/8W              |         |
| R678     | YESRG118 | Chip, 470 1/8W             |         |
| R679     | YESRG118 | Chip, 470 1/8W             |         |
| R680     | YESRG118 | Chip, 470 1/8W             |         |
| R681     | YESRG118 | Chip, 470 1/8W             |         |
| R682     | YESRG095 | Chip, 1k 1/8W              |         |
| R683     | YESRG120 | Chip, 47k 1/8W             |         |
| R685     | YESRG148 | Chip, 47k 1/4W             |         |
| R690     | YESRG095 | Chip, 1k 1/8W              |         |
| R691     | YESRG096 | Chip, 10k 1/8W             |         |
| R692     | YESRG112 | Chip, 2.7k 1/8W            |         |

| Ref. No.          | Part No. | Part Name & Description  | Remarks |
|-------------------|----------|--------------------------|---------|
| R693              | YESRG112 | Chip, 2.7k $\Omega$ 1/8W |         |
| R694              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R695              | YESRG112 | Chip, 2.7k $\Omega$ 1/8W |         |
| R696              | YESRG219 | Chip, 5.1k $\Omega$ 1/4W |         |
| R697              | YESRG219 | Chip, 5.1k $\Omega$ 1/4W |         |
| R698              | YESRG123 | Chip, 5.1k $\Omega$ 1/8W |         |
| R699              | YESRG217 | Chip, 1.8k $\Omega$ 1/4W |         |
| R703              | YESRG099 | Chip, 12k $\Omega$ 1/8W  |         |
| R704              | YESRG098 | Chip, 11k $\Omega$ 1/8W  |         |
| R710              | YESRG110 | Chip, 220k $\Omega$ 1/8W |         |
| R711              | YESRG129 | Chip, 680k $\Omega$ 1/8W |         |
| R712              | YESRG120 | Chip, 47k $\Omega$ 1/8W  |         |
| R713              | YESRG097 | Chip, 100k $\Omega$ 1/8W |         |
| R714              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R715              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R716              | YESRG120 | Chip, 47k $\Omega$ 1/8W  |         |
| R720              | YESRG131 | Chip, 8.2k $\Omega$ 1/8W |         |
| R721              | YESRG218 | Chip, 4.3k $\Omega$ 1/4W |         |
| R722              | YESRG191 | Chip, 22k $\Omega$ 1/4W  |         |
| R730              | YESRG184 | Chip, 4.3k $\Omega$ 1/8W |         |
| R731              | YESRG131 | Chip, 8.2k $\Omega$ 1/8W |         |
| R740              | YESRG109 | Chip, 22k $\Omega$ 1/8W  |         |
| R751              | YESRG120 | Chip, 47k $\Omega$ 1/8W  |         |
| R752              | YESRG100 | Chip, 1.5k $\Omega$ 1/8W |         |
| R760              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R761              | YESRG200 | Chip, 3.3k $\Omega$ 1/8W |         |
| R762              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R763              | YESRG133 | Chip, 10 $\Omega$ 1/4W   |         |
| R770              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R790              | YESRG095 | Chip, 1k $\Omega$ 1/8W   |         |
| R791              | YESRG118 | Chip, 470 $\Omega$ 1/8W  |         |
|                   |          |                          |         |
|                   |          |                          |         |
| <b>CONNECTORS</b> |          |                          |         |
| CN250             | YESAE375 | Jack                     |         |
| CN601             | YESAE363 | Connector 15P            |         |
| CN661             | YESAE344 | Connector 18P            |         |
| CN701             | YESAE351 | Connector 16P            |         |
|                   |          |                          |         |
|                   |          |                          |         |
| <b>COILS</b>      |          |                          |         |
| L051              | YESLQ035 | Inductor                 |         |
| L052              | YESLQ028 | Inductor                 |         |
| L401              | YESLQ017 | Inductor                 |         |
| L402              | YESLQ017 | Inductor                 |         |
| L680              | YESLQ027 | Inductor                 |         |
| L701              | YESLT030 | Inductor                 |         |
| L710              | YESLQ012 | Inductor                 |         |
|                   |          |                          |         |
|                   |          |                          |         |

| Ref. No.                          | Part No.     | Part Name & Description | Remarks |
|-----------------------------------|--------------|-------------------------|---------|
| <b>CRYSTALS</b>                   |              |                         |         |
| XL401                             | YESXL026     | Crystal                 |         |
| XL501                             | YESXL029     | Crystal                 |         |
| XL601                             | YESXL030     | Crystal                 |         |
| XL602                             | YESXL027     | Crystal                 |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
| <b>POSISTOR</b>                   |              |                         |         |
| PH701                             | YESRTD011    | Posistor                |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
| <b>SERGE PROTECTOR/ VARISTOR</b>  |              |                         |         |
| Z050                              | YESRTD013    | Serge Protector         |         |
| Z701                              | YESRTD012    | Varistor                |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
| <b>SWITCH</b>                     |              |                         |         |
| SW670                             | YEAS08042    | Switch                  |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
| <b>[7211-05-11] Display Block</b> |              |                         |         |
| <b>IC's</b>                       |              |                         |         |
| IC901                             | YEAMLC75854T | IC                      |         |
| IC905                             | YESAM264     | IC                      |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
| <b>DIODEs</b>                     |              |                         |         |
| D902                              | YESAD125     | LED                     |         |
| D903                              | YESAD125     | LED                     |         |
| D904                              | YESAD125     | LED                     |         |
| D905                              | YESAD125     | LED                     |         |
| D906                              | YESAD125     | LED                     |         |
| D907                              | YESAD125     | LED                     |         |
| D908                              | YESAD125     | LED                     |         |
| D909                              | YESAD125     | LED                     |         |
| D911                              | YESAD125     | LED                     |         |
| D912                              | YESAD125     | LED                     |         |
| D913                              | YESAD125     | LED                     |         |
| D914                              | YESAD125     | LED                     |         |
| D915                              | YESAD125     | LED                     |         |
| D916                              | YESAD125     | LED                     |         |
| D920                              | YESAD145     | LED                     |         |
| D921                              | YESAD145     | LED                     |         |
| D931                              | YESAD150     | Zener Diode             |         |
| D937                              | YESAD143     | Diode                   |         |
| D938                              | YESAD125     | LED                     |         |
|                                   |              |                         |         |
|                                   |              |                         |         |
| <b>CAPACITORs</b>                 |              |                         |         |
| C905                              | YESCC228     | Ceramic, 0.1 F 16WV     |         |
| C906                              | YESCC386     | Ceramic, 0.001 F 50WV   |         |
| C914                              | YESCC385     | Ceramic, 0.1 F 16WV     |         |
| C915                              | YESCC385     | Ceramic, 0.1 F 16WV     |         |
| C916                              | YESCC385     | Ceramic, 0.1 F 16WV     |         |

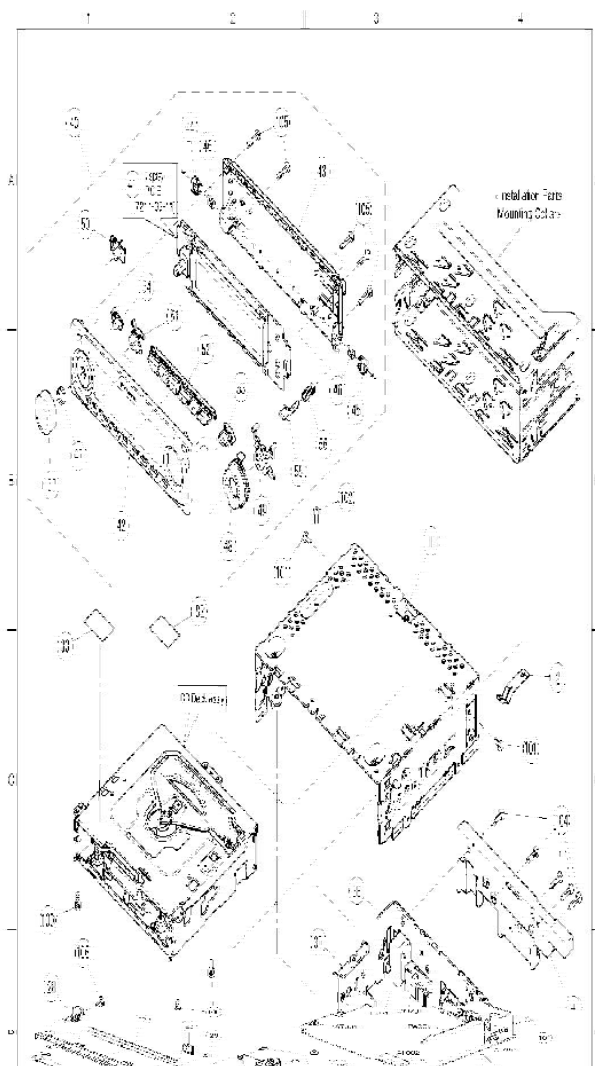
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| Ref. No.                            | Part No.     | Part Name & Description   | Remarks |
|-------------------------------------|--------------|---------------------------|---------|
| C923                                | YESCC382     | Ceramic, 680pF 50WV       |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
| <b>RESISTORs</b>                    |              |                           |         |
| J991                                | YESRG093     | Chip, 0 $\Omega$ 1/8W     |         |
| R903                                | YESRG210     | Chip, 470 $\Omega$ 1/10W  |         |
| R904                                | YESRG159     | Chip, 1k $\Omega$ 1/4W    |         |
| R905                                | YESRG159     | Chip, 1k $\Omega$ 1/4W    |         |
| R906                                | YESRG159     | Chip, 1k $\Omega$ 1/4W    |         |
| R908                                | YESRG094     | Chip, 100 $\Omega$ 1/8W   |         |
| R909                                | YESRG159     | Chip, 1k $\Omega$ 1/4W    |         |
| R910                                | YESRG209     | Chip, 2.2k $\Omega$ 1/10W |         |
| R911                                | YESRG093     | Chip, 0 $\Omega$ 1/8W     |         |
| R912                                | YESRG093     | Chip, 0 $\Omega$ 1/8W     |         |
| R914                                | YESRG093     | Chip, 0 $\Omega$ 1/8W     |         |
| R920                                | YESRG143     | Chip, 330 $\Omega$ 1/4W   |         |
| R921                                | YESRG143     | Chip, 330 $\Omega$ 1/4W   |         |
| R937                                | YESRG272     | Chip, 2k $\Omega$ 1/8W    |         |
| R939                                | YESRG121     | Chip, 4.7k $\Omega$ 1/8W  |         |
| R942                                | YESRG120     | Chip, 47k $\Omega$ 1/8W   |         |
| R950                                | YESRG215     | Chip, 430 $\Omega$ 1/8W   |         |
| R951                                | YESRG215     | Chip, 430 $\Omega$ 1/8W   |         |
| R952                                | YESRG215     | Chip, 430 $\Omega$ 1/8W   |         |
| R954                                | YESRG201     | Chip, 620 $\Omega$ 1/8W   |         |
| R958                                | YESRG130     | Chip, 820 $\Omega$ 1/8W   |         |
| R965                                | YESRG247     | Chip, 1.2k $\Omega$ 1/8W  |         |
| R967                                | YESRG093     | Chip, 0 $\Omega$ 1/8W     |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
| <b>CONNECTOR</b>                    |              |                           |         |
| CN901                               | YESAE376     | Connector 14P             |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
| <b>SWITCHes</b>                     |              |                           |         |
| SW901                               | YESAS123     | Switch                    |         |
| SW902-916                           | K0H1BA000445 | Switch                    |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
| <b>LCD</b>                          |              |                           |         |
| LD901                               | YESXDCM026   | LCD                       |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
| <b>[7211-03-11] Connector Block</b> |              |                           |         |
| <b>DIODEs</b>                       |              |                           |         |
| D990                                | YESAD125     | LED                       |         |
| D991                                | YESAD125     | LED                       |         |
|                                     |              |                           |         |
|                                     |              |                           |         |
| <b>RESITORs</b>                     |              |                           |         |
| R990                                | YESRG159     | Chip, 1k 1/4W             |         |
| R991                                | YESRG159     | Chip, 1k 1/4W             |         |

| Ref. No.                  | Part No.     | Part Name & Description                                                                        | Remarks |
|---------------------------|--------------|------------------------------------------------------------------------------------------------|---------|
| R992                      | YESRG132     | Chip, 0  1/4W |         |
|                           |              |                                                                                                |         |
| <b>CONNECTORs</b>         |              |                                                                                                |         |
| CN990                     | K1KA15A00096 | Connector 15P                                                                                  |         |
| CN991                     | YESAE377     | Connector 14P                                                                                  |         |
|                           |              |                                                                                                |         |
| <b>SWITCH</b>             |              |                                                                                                |         |
| SW990                     | K0H1BA000445 | Switch                                                                                         |         |
|                           |              |                                                                                                |         |
|                           |              |                                                                                                |         |
|                           |              |                                                                                                |         |
| <b>Accessories</b>        |              |                                                                                                |         |
| <b>PRINTINGS</b>          |              |                                                                                                |         |
|                           | YEFM285871   | Operating Instructions                                                                         |         |
|                           | YEFM294218   | Installation Instructions                                                                      |         |
|                           |              |                                                                                                |         |
|                           |              |                                                                                                |         |
| <b>INSTALLATION PARTS</b> |              |                                                                                                |         |
|                           | YEP0FZ5699   | Installation kit (Lock Cancel Plate, Mounting Bolt, ISO Antenna Adapter)                       |         |
|                           | YESFC05029   | Trim Plate                                                                                     |         |
|                           | YEAJ02874    | Power Connector                                                                                |         |
|                           | YEFX0217263  | Mounting Collar                                                                                |         |
|                           | YEFA131839   | Removable Face Plate Case                                                                      |         |
|                           |              |                                                                                                |         |
|                           |              |                                                                                                |         |
| <b>MECHANICAL PARTS</b>   |              |                                                                                                |         |
| <b>MISCELLANEOUS</b>      |              |                                                                                                |         |
| AT001                     | YESAT01031   | Earth Terminal                                                                                 |         |
| AT002                     | YESAT01031   | Earth Terminal                                                                                 |         |
| AT051                     | YM104C700ZA  | Antenna Terminal                                                                               |         |
| 1                         | YESFA01073   | Main Chassis                                                                                   |         |
| 2                         | YESFX005155  | Ground Contactor                                                                               |         |
| 4                         | YESFF01084   | Heat Sink                                                                                      |         |
| 6                         | YESFA05037   | Bottom Cover                                                                                   |         |
| 20                        | YESAP418     | Main PCB w/Component                                                                           | RTL     |
| 25                        | YESFC02166   | Escutcheon                                                                                     |         |
| 26                        | YESFE13220   | Button (Eject)                                                                                 |         |
| 27                        | YESFS01089   | Dust Felt                                                                                      |         |
| 28                        | YESFX999066  | Bracket Arm Ass'y                                                                              |         |
| 29                        | YESFX001034  | CD Indicator                                                                                   |         |
| 30                        | YESFX999067  | Hook Bracket Ass'y                                                                             |         |
| 31                        | YESAP400     | Connector PCB w/Component                                                                      | RTL     |
| 32                        | YESFE13221   | Button, Detect                                                                                 |         |
| 33                        | YESFX999065  | Guide, Detect Button                                                                           |         |
| 34                        | YESFX005157  | Spring, Return                                                                                 |         |
| 35                        | YESFX005158  | Spring, Guide                                                                                  |         |
| 36                        | YESFV01071   | Insulator                                                                                      |         |
| 37                        | YESFX021140  | Regulator Bracket                                                                              |         |
| 38                        | YESFA08036   | Rear Plate                                                                                     |         |
| 40                        | YESSDF0186   | Removable Face Plate Unit                                                                      | RTL     |
| 41                        | YESAP419     | Display PCB w/Component                                                                        | RTL     |
| 42                        | YESFC02246   | Front Face Ass'y                                                                               |         |
| 43                        | YESFA07017   | Back Cover, Detachable                                                                         |         |
| 44                        | YESFX999068  | Shaft Collar (L)                                                                               |         |
| 45                        | YESFX999069  | Shaft Collar (R)                                                                               |         |

| Ref. No. | Part No.    | Part Name & Description | Remarks |
|----------|-------------|-------------------------|---------|
| 46       | YESFX005135 | Spring                  |         |
| 47       | YESFX005138 | Knob Spring             |         |
| 48       | YESFE13225  | Button (TUN/TRACK)      |         |
| 49       | YESFE13224  | Button (BAND)           |         |
| 50       | YESFE13226  | Button (SOURCE)         |         |
| 51       | YESFE13233  | Button (TA)             |         |
| 52       | YESFE13228  | Button (PRESET)         |         |
| 53       | YESFE13229  | Button (DISP)           |         |
| 54       | YESFE13222  | Button (MUTE)           |         |
| 55       | YESFE13223  | Button (OPEN)           |         |
| 56       | YESFX005159 | Spring, open            |         |
| 57       | YESFE02023  | Knob, VOL               |         |
| 82       | YESFM01088  | Laser Seal B            |         |
| 83       | YESFM01087  | Laser Seal A            |         |
|          |             |                         |         |
| 100      | YESJS01189  | Screw, 2.6 * 4          |         |
| 101      | YESJS01188  | Bind Screw, 2.6 * 5     |         |
| 102      | YESJT03074  | Bind Screw, 2.6 * 8     |         |
| 103      | YESJS01190  | Screw, 2.6 * 6          |         |
| 104      | YESJS01187  | Bind Screw, 2.6 * 10    |         |
| 105      | YESJT03075  | Tapping Screw, 2 * 8    |         |
| 106      | YESJT03076  | Tapping Screw, 2*6      |         |
|          |             |                         |         |

## 12. EXPLODED VIEW (Unit)



## 13. CD PLAYER PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by  mark have special characteristics important for safety. When replacing any of

**these components, use only manufacturer's specified parts.**

- 3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
- 4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
  - Order intake period is basically six months after the first shipment.**

| Ref. No. | Part No.     | Part Name & Description   | Remarks |
|----------|--------------|---------------------------|---------|
| C121     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C122     | F1H1H101A231 | Ceramic, 100pF 50WV       |         |
| C124     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C125     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C151     | YESCC388     | Electrolytic, 100 F 16WV  |         |
| C154     | YESCC390     | Electrolytic, 220 F 10WV  |         |
| C204     | YESCC183     | Ceramic, 0.0022 F 50WV    |         |
| C205     | YESCC183     | Ceramic, 0.0022 F 50WV    |         |
| C206     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C210     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C212     | YESCC210     | Ceramic, 1 F 16WV         |         |
| C251     | YESCC390     | Electrolytic, 220 F 10WV  |         |
| C252     | YESCC390     | Electrolytic, 220 F 10WV  |         |
| C253     | YESCC389     | Electrolytic, 470 F 6.3WV |         |
| C301     | YESCC203     | Ceramic, 220pF 50WV       |         |
| C303     | YESCC185     | Ceramic, 0.01 F 50WV      |         |
| C304     | YESCC185     | Ceramic, 0.01 F 50WV      |         |
| C305     | YESCC382     | Ceramic, 680pF 50WV       |         |
| C306     | YESCC382     | Ceramic, 680pF 50WV       |         |
| C307     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C351     | YESCC381     | Ceramic, 10 F 6.3WV       |         |
| C352     | YESCC381     | Ceramic, 10 F 6.3WV       |         |
| C353     | YESCC391     | Electrolytic, 100 F 16WV  |         |
| C354     | YESCC390     | Electrolytic, 220 F 10WV  |         |
| C401     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C402     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C403     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C404     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C405     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C406     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C407     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C408     | YESCC210     | Ceramic, 1 F 16WV         |         |
| C409     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C410     | YESCC387     | Ceramic, 0.47 F 25WV      |         |
| C411     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C412     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C413     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C414     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C415     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C416     | YESCC210     | Ceramic, 1 F 16WV         |         |
| C417     | YESCC187     | Ceramic, 0.1 F 25WV       |         |
| C418     | YESCC210     | Ceramic, 1 F 16WV         |         |

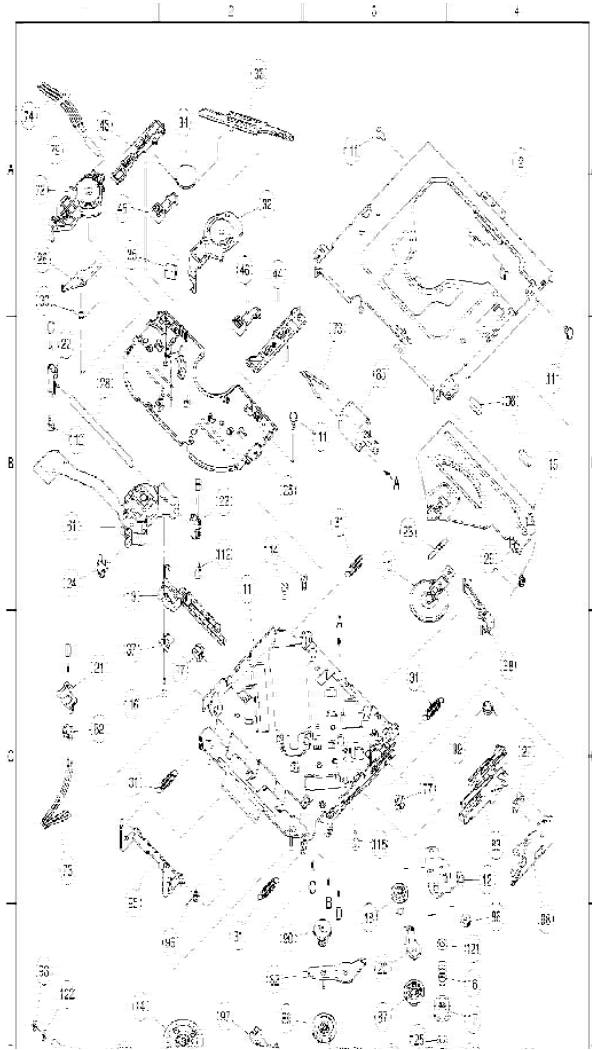
| Ref. No.                    | Part No. | Part Name & Description | Remarks |
|-----------------------------|----------|-------------------------|---------|
| [3032-14-13] CD Servo Block |          |                         |         |
| IC's and TRANSISTORS        |          |                         |         |
| IC101                       | YESAM272 | IC                      |         |
| IC201                       | YESAM266 | IC                      |         |
| IC401                       | YESAM348 | IC                      |         |
| IC402                       | YESAM353 | IC                      |         |
| IC403                       | YESAM171 | IC                      |         |
| IC404                       | YESAM178 | IC                      |         |
| IC405                       | YESAM270 | IC                      |         |
| Q101                        | YESAN086 | Transistor              |         |
| Q201                        | YESAN086 | Transistor              |         |
|                             |          |                         |         |
| CAPACITORS                  |          |                         |         |
| C302                        | YESCC203 | Ceramic, 220pF 50WV     |         |
| C101                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |
| C102                        | YESCC384 | Ceramic, 0.033 F 50WV   |         |
| C103                        | YESCC206 | Ceramic, 0.047 F 25WV   |         |
| C104                        | YESCC207 | Ceramic, 0.001 F 50WV   |         |
| C106                        | YESCC204 | Ceramic, 330pF 50WV     |         |
| C107                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |
| C108                        | YESCC206 | Ceramic, 0.047 F 25WV   |         |
| C110                        | YESCC383 | Ceramic, 0.33 F 10WV    |         |
| C112                        | YESCC209 | Ceramic, 0.0033 F 50WV  |         |
| C113                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |
| C114                        | YESCC298 | Ceramic, 0.015 F 50WV   |         |
| C115                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |
| C116                        | YESCC382 | Ceramic, 680pF 50WV     |         |
| C117                        | YESCC207 | Ceramic, 0.001 F 50WV   |         |
| C118                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |
| C119                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |
| C120                        | YESCC187 | Ceramic, 0.1 F 25WV     |         |

| Ref. No.  | Part No.     | Part Name & Description         | Remarks | Ref. No. | Part No.     | Part Name & Description | Remarks |
|-----------|--------------|---------------------------------|---------|----------|--------------|-------------------------|---------|
| C419      | YESCC187     | Ceramic, 0.1 $\mu$ F 25WV       |         | R205     | ERJ3GEY0R00V | Chip, 0 1/4W            |         |
| C421      | YESCC210     | Ceramic, 1 $\mu$ F 16WV         |         | R206     | YESRG231     | Chip, 33k 1/10W         |         |
| C422      | YESCC187     | Ceramic, 0.1 $\mu$ F 25WV       |         | R207     | ERJ3GEY0R00V | Chip, 0 1/4W            |         |
| C426      | YESCC187     | Ceramic, 0.1 $\mu$ F 25WV       |         | R208     | YESRG233     | Chip, 47k 1/10W         |         |
| C427      | YESCC187     | Ceramic, 0.1 $\mu$ F 25WV       |         | R209     | ERJ3GEY0R00V | Chip, 0 1/4W            |         |
| C451      | YESCC389     | Electrolytic, 470 $\mu$ F 6.3WV |         | R215     | YESRG237     | Chip, 5.6k 1/10W        |         |
| C452      | YESCC389     | Electrolytic, 470 $\mu$ F 6.3WV |         | R216     | YESRG237     | Chip, 5.6k 1/10W        |         |
| C453      | YESCC389     | Electrolytic, 470 $\mu$ F 6.3WV |         | R217     | YESRG222     | Chip, 1k 1/10W          |         |
| C454      | YESCC388     | Electrolytic, 100 $\mu$ F 16WV  |         | R218     | YESRG237     | Chip, 5.6k 1/10W        |         |
|           |              |                                 |         | R301     | YESRG229     | Chip, 330 1/10W         |         |
|           |              |                                 |         | R302     | YESRG229     | Chip, 330 1/10W         |         |
|           |              |                                 |         | R305     | YESRG222     | Chip, 1k 1/10W          |         |
|           |              |                                 |         | R306     | YESRG222     | Chip, 1k 1/10W          |         |
| RESISTORS |              |                                 |         | R307     | YESRG233     | Chip, 47k 1/10W         |         |
| J101      | ERJ8GX0R00V  | Chip, 0 $\Omega$ 1/4W           |         | R308     | YESRG233     | Chip, 47k 1/10W         |         |
| J102      | ERJ8GX0R00V  | Chip, 0 $\Omega$ 1/4W           |         | R401     | YESRG223     | Chip, 10k 1/10W         |         |
| J103      | ERJ8GX0R00V  | Chip, 0 $\Omega$ 1/4W           |         | R402     | YESRG223     | Chip, 10k 1/10W         |         |
| J104      | ERJ8GX0R00V  | Chip, 0 $\Omega$ 1/4W           |         | R403     | YESRG223     | Chip, 10k 1/10W         |         |
| J105      | ERJ8GX0R00V  | Chip, 0 $\Omega$ 1/4W           |         | R404     | YESRG233     | Chip, 47k 1/10W         |         |
| L102      | YESRG241     | Chip, 0 $\Omega$                |         | R405     | YESRG232     | Chip, 4.7k 1/10W        |         |
| L304      | YESRG241     | Chip, 0 $\Omega$                |         | R406     | YESRG226     | Chip, 220 1/10W         |         |
| R101      | YESRG234     | Chip, 4.7 $\Omega$ 1/10W        |         | R407     | YESRG230     | Chip, 3.3k 1/10W        |         |
| R102      | ERJ3GEY0R00V | Chip, 0 $\Omega$ 1/4W           |         | R408     | ERJ3GEY0R00V | Chip, 0 1/4W            |         |
| R103      | YESRG227     | Chip, 2.2k $\Omega$ 1/10W       |         | R409     | ERJ3GEY0R00V | Chip, 0 1/4W            |         |
| R104      | YESRG227     | Chip, 2.2k $\Omega$ 1/10W       |         | R410     | YESRG223     | Chip, 10k 1/10W         |         |
| R105      | ERJ3GEY0R00V | Chip, 0 $\Omega$ 1/4W           |         | R411     | YESRG226     | Chip, 220 1/10W         |         |
| R106      | YESRG230     | Chip, 3.3k $\Omega$ 1/10W       |         | R412     | YESRG230     | Chip, 3.3k 1/10W        |         |
| R107      | YESRG230     | Chip, 3.3k $\Omega$ 1/10W       |         | R413     | YESRG232     | Chip, 4.7k 1/10W        |         |
| R108      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R414     | YESRG232     | Chip, 4.7k 1/10W        |         |
| R109      | YESRG238     | Chip, 56k 1/10W                 |         | R415     | YESRG232     | Chip, 4.7k 1/10W        |         |
| R110      | YESRG228     | Chip, 22k 1/10W                 |         | R416     | YESRG232     | Chip, 4.7k 1/10W        |         |
| R114      | YESRG240     | Chip, 82k 1/10W                 |         | R417     | YESRG223     | Chip, 10k 1/10W         |         |
| R116      | YESRG239     | Chip, 820 1/10W                 |         | R419     | YESRG226     | Chip, 220 1/10W         |         |
| R117      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R420     | YESRG236     | Chip, 560 1/10W         |         |
| R118      | YESRG223     | Chip, 10k 1/10W                 |         | R421     | ERJ3GEY0R00V | Chip, 0 1/4W            |         |
| R119      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R422     | YESRG224     | Chip, 100k 1/10W        |         |
| R120      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R423     | YESRG235     | Chip, 56 1/10W          |         |
| R121      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R424     | YESRG235     | Chip, 56 1/10W          |         |
| R122      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R425     | YESRG223     | Chip, 10k 1/10W         |         |
| R123      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R426     | YESRG223     | Chip, 10k 1/10W         |         |
| R124      | YESRG224     | Chip, 100k 1/10W                |         | R427     | YESRG222     | Chip, 1k 1/10W          |         |
| R125      | YESRG226     | Chip, 220 1/10W                 |         | R428     | YESRG222     | Chip, 1k 1/10W          |         |
| R126      | YESRG226     | Chip, 220 1/10W                 |         | R429     | YESRG222     | Chip, 1k 1/10W          |         |
| R127      | YESRG226     | Chip, 220 1/10W                 |         | R430     | YESRG222     | Chip, 1k 1/10W          |         |
| R128      | YESRG226     | Chip, 220 1/10W                 |         | R431     | YESRG222     | Chip, 1k 1/10W          |         |
| R201      | YESRG225     | Chip, 1.5k 1/10W                |         | R432     | YESRG222     | Chip, 1k 1/10W          |         |
| R202      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         | R433     | YESRG227     | Chip, 2.2k 1/10W        |         |
| R204      | ERJ3GEY0R00V | Chip, 0 1/4W                    |         |          |              |                         |         |

| Ref. No.          | Part No.    | Part Name & Description  | Remarks | Ref. No. | Part No.    | Part Name & Description        | Remarks |
|-------------------|-------------|--------------------------|---------|----------|-------------|--------------------------------|---------|
| R435              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 11       | YESFA01075  | Chassis Rivet Ass'y            |         |
| R436              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 12       | YERFX046001 | Change Plate Rivet Ass'y       |         |
| R437              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 13       | YERFX007001 | Clamper Ass'y                  |         |
| R438              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 14       | YESAK01041  | Spindle Motor Ass'y            |         |
| R439              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 15       | YERFX046002 | Clamper Arm                    |         |
| R440              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 16       | YERFX005001 | Changer Gear Spring            |         |
| R441              | YESRG221    | Chip, 100 $\Omega$ 1/10W |         | 17       | YERFX03001  | Changer Gear 2                 |         |
|                   |             |                          |         | 18       | YERFX03002  | Feed Gear                      |         |
|                   |             |                          |         | 19       | YERFX03003  | Feed Rack M                    |         |
|                   |             |                          |         | 20       | YERFX046003 | Changer Lock Lever             |         |
|                   |             |                          |         | 21       | YERFW04001  | Feed Switch Holder             |         |
| CONNECTORS        |             |                          |         | 22       | YERFW04002  | PU Shaft Holder                |         |
| CN101             | YESAE345    | Connector 18P            |         | 23       | YERFX005002 | Clamper Sub Spring             |         |
| CN102             | YESAE350    | Connector 16P            |         | 24       | YERFW04003  | FD Sub Holder                  |         |
|                   |             |                          |         | 25       | YESFX046139 | Top Plate                      |         |
|                   |             |                          |         | 26       | YERFX046004 | Select Lock Arm                |         |
| COILS             |             |                          |         | 27       | YERFX046006 | Slide Hook                     |         |
| L101              | YESLQ011    | Inductor                 |         | 28       | YERFW01001  | PU Shaft                       |         |
| L201              | YESLQ034    | Inductor                 |         | 29       | YERFX005003 | Clamper Arm Spring             |         |
| L301              | YESLQ036    | Inductor                 |         | 30       | YERFX005004 | Select Lock Arm Spring         |         |
| L302              | YESLQ036    | Inductor                 |         | 31       | YERFX005013 | Suspension Spring              |         |
| L401              | YESLQ014    | Inductor                 |         | 32       | YESFX046140 | Select Arm R                   |         |
| L402              | YESLQ014    | Inductor                 |         | 33       | YERFX03004  | Link Plate                     |         |
| L403              | YESLQ014    | Inductor                 |         | 34       | YESFX005137 | Link Plate Spring              |         |
| L404              | YESLQ033    | Inductor                 |         | 35       | YERFS01001  | Cushion F                      |         |
| L405              | YESLQ033    | Inductor                 |         | 36       | YERFS01002  | Cushion R                      |         |
| L406              | YESLQ033    | Inductor                 |         | 37       | YERFX005014 | Feed Spring Plate              |         |
|                   |             |                          |         | 38       | YERFX046005 | Trigger Arm                    |         |
|                   |             |                          |         | 43       | YERFX046008 | Select Plate L                 |         |
| CRYSTAL           |             |                          |         | 44       | YERFX046009 | Select Plate R                 |         |
| X401              | YESXL018    | Crystal                  |         | 45       | YERFX046010 | Select Piece L                 |         |
|                   |             |                          |         | 46       | YERFX046011 | Select Piece R                 |         |
|                   |             |                          |         | 61       | YESSZ1093   | Optical Pick-up Ass'y          |         |
| RESISTOR NETWORKs |             |                          |         | 62       | YERAS0001   | Detect Switch                  |         |
| RA401             | YESXA003    | Resistor Network, 56 * 4 |         | 71       | YESAP494    | Servo PCB w/ Components        | RTL     |
| RA402             | YESXA003    | Resistor Network, 56 * 4 |         | 72       | YERAS0002   | Mode Switch                    |         |
| RA403             | YESXB014    | Resistor Network, 0 * 4  |         | 73       | YESAJ07014  | LD Wire                        |         |
| RA404             | YESXB014    | Resistor Network, 0 * 4  |         | 74       | YESAJ07015  | SW Wire                        |         |
| RA405             | YESXA003    | Resistor Network, 56 * 4 |         | 75       | YESAJ07016  | SP Wire                        |         |
| RA406             | YESXA003    | Resistor Network, 56 * 4 |         | 77       | YERFX999001 | Wire Clamper                   |         |
| RA407             | YESXA003    | Resistor Network, 56 * 4 |         | 78       | YESFX024021 | Wire Tube SPM                  |         |
| RA408             | YESXA003    | Resistor Network, 56 * 4 |         | 79       | YESFX024022 | Wire Tube MSW                  |         |
| RA409             | YESXA003    | Resistor Network, 56 * 4 |         | 81       | YERFX03005  | Roller Shaft Ass'y             |         |
| RA410             | YESXA003    | Resistor Network, 56 * 4 |         | 82       | YERFX046012 | Loading Gear Plate Rivet Ass'y |         |
| RA411             | YESXA003    | Resistor Network, 56 * 4 |         | 83       | YERFX046013 | Loading Plate Ass'y            |         |
| RA412             | YESXA003    | Resistor Network, 56 * 4 |         | 84       | YESFX046173 | Lock Arm Rivet Ass'y           |         |
|                   |             |                          |         | 85       | YESAK01042  | Loading/Feed Motor Ass'y       |         |
|                   |             |                          |         | 86       | YERFX03006  | Loading Gear 1                 |         |
|                   |             |                          |         | 87       | YERFX03007  | Loading Gear 2                 |         |
|                   |             |                          |         | 88       | YERFX03008  | Loading Gear 3                 |         |
|                   |             |                          |         | 89       | YERFX03009  | Loading Gear 4                 |         |
| MECHANICAL PARTS  |             |                          |         | 90       | YERFX03010  | Loading Gear 5                 |         |
| MISCELLANEOUS     |             |                          |         | 91       | YERFX03011  | Loading Gear 6                 |         |
| 1                 | YESFX046136 | Frame                    |         | 92       | YERFX03012  | Loading Gear 7                 |         |
| 2                 | YESFX046137 | Top Cover                |         | 93       | YESFW05023  | Roller Guide                   |         |
| 3                 | YERFS04003  | Damper F                 |         | 94       | YERFX005007 | Rller Guide Spring             |         |
| 4                 | YERFS04004  | Damper R                 |         | 95       | YERFX046015 | Disk Stopper Arm               |         |

| Ref. No. | Part No.    | Part Name & Description    | Remarks |
|----------|-------------|----------------------------|---------|
| 96       | YERFX005008 | Disk Stop Arm Spring       |         |
| 97       | YERFX046016 | LD Gear Bracket            |         |
| 98       | YESFX046174 | L Slide Plate              |         |
| 99       | YERFX005009 | Loading Plate Spring       |         |
| 100      | YESFX046150 | Loading Roller             |         |
| 101      | YESJS01175  | Collar Screw               |         |
| 111      | YERJT01001  | Tapping Screw 2*3          |         |
| 112      | YERJT01002  | Tapping Screw 2*4          |         |
| 113      | YEJT03117   | Tapping Bind Screw 2*4     |         |
| 114      | YERJS01002  | Camera Screw 1.7*1.8       |         |
| 115      | YERJS01003  | Camera Screw 2*2           |         |
| 116      | YERJS01004  | Camera Tapping Screw 1.7*5 |         |
| 118      | YESJS01148  | Screw 2*4                  |         |
| 121      | YERJW01001  | P Washer 3.5*8*0.3         |         |
| 122      | YERJW01002  | HL Washer 3.5*8*0.3        |         |
| 123      | YERJW01003  | Lumilar Washer 3.1*6*0.1   |         |
| 124      | YEJE01028   | E Ring S 1.5               |         |
| 125      | YERJW01005  | P Washer 2.1*4*0.3         |         |
|          |             |                            |         |

## 14. EXPLODED VIEW (CD Deck)



## 15. WIRING DIAGRAM

### 15.1. Main/Connector Block (Top View)

### 15.2. Main/Connector Block (Bottom View)

### 15.3. Display Block

#### **15.4. CD Servo Block (Top View)**

#### **15.5. CD Servo Block (Bottom View)**

**THIS PAGE IS JUST FOR  
THE PAGE LAYOUT USE  
ONLY.**

### **16. SCHEMATIC DIAGRAM -1**

#### **16.1. Connector Block**

## **17. SCHEMATIC DIAGRAM -2**

### **17.1. Main Block**

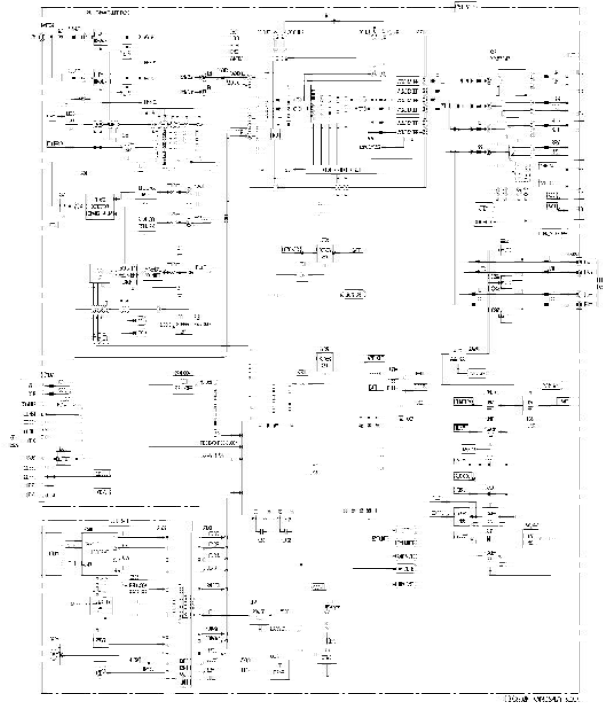
### **17.2. Display Block**

### **17.3. CD Servo Block**

**THIS PAGE IS JUST FOR  
THE PAGE LAYOUT USE**

## 18. BLOCK DIAGRAM

### 18.1. Main/ Display/ Connector Block



### 18.2. CD Servo Block



## 19. SCHEMATIC DIAGRAM for Printing with A4 Size

**19.1. Main Block (Left Side)**

**19.2. Main Block (Right Side)**

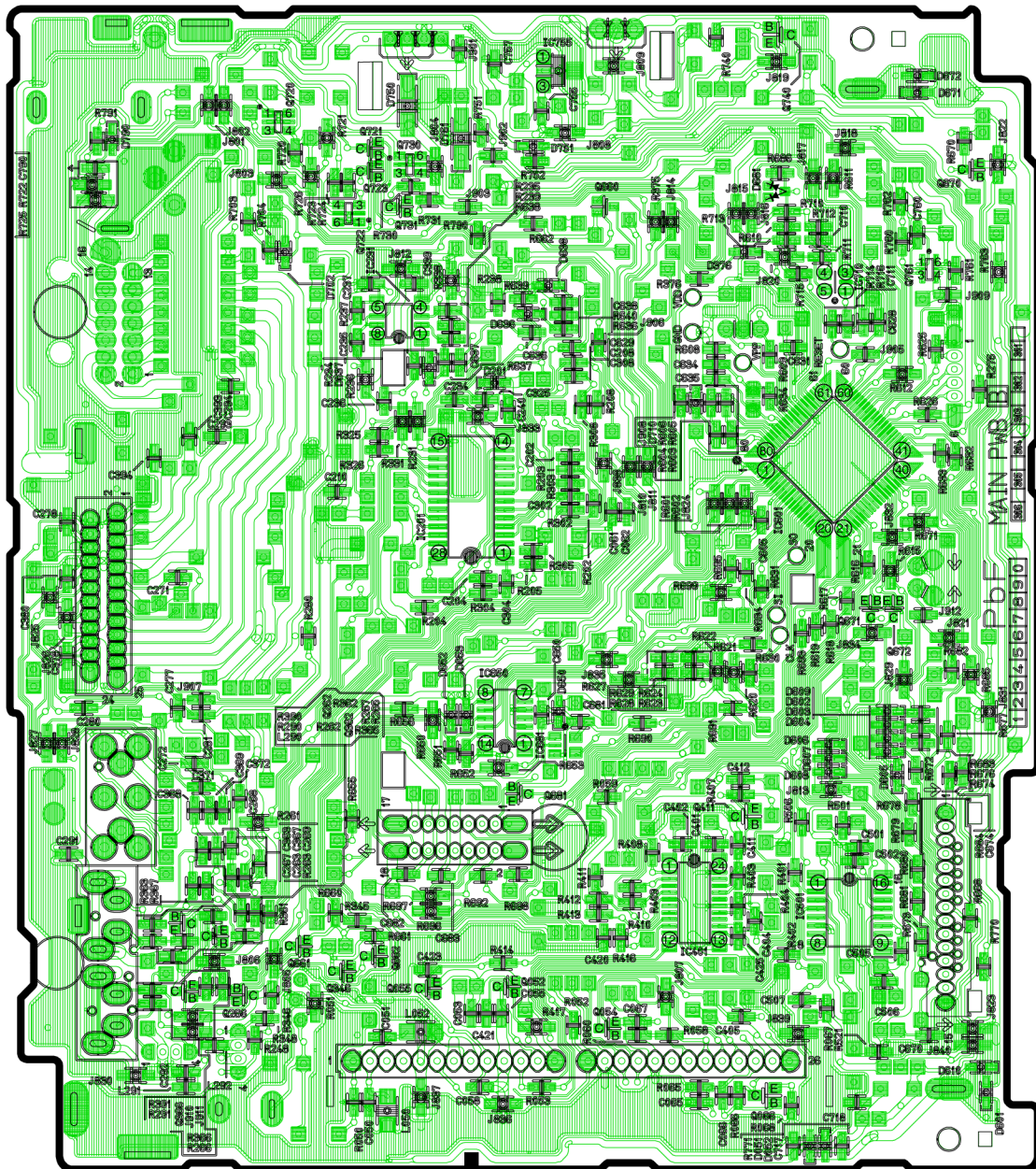
**19.3. Display Block (Left Side)**

**19.4. Display Block (Right Side)**

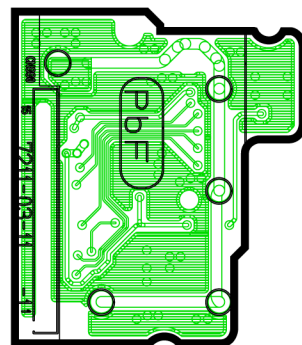
**19.5. CD Servo Block (Left Side)**

**19.6. CD Servo Block (Right Side)**

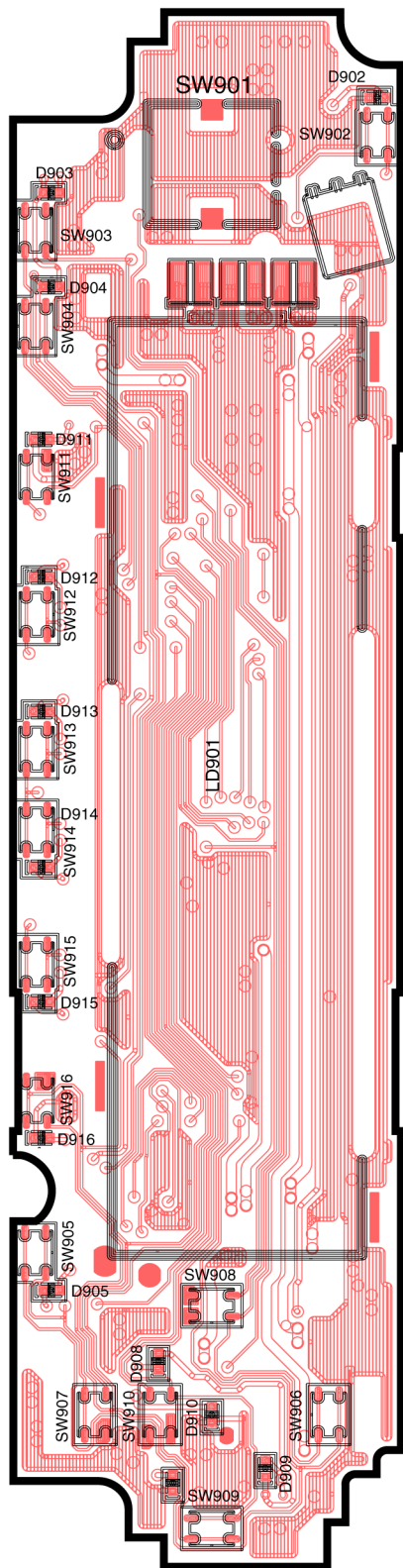




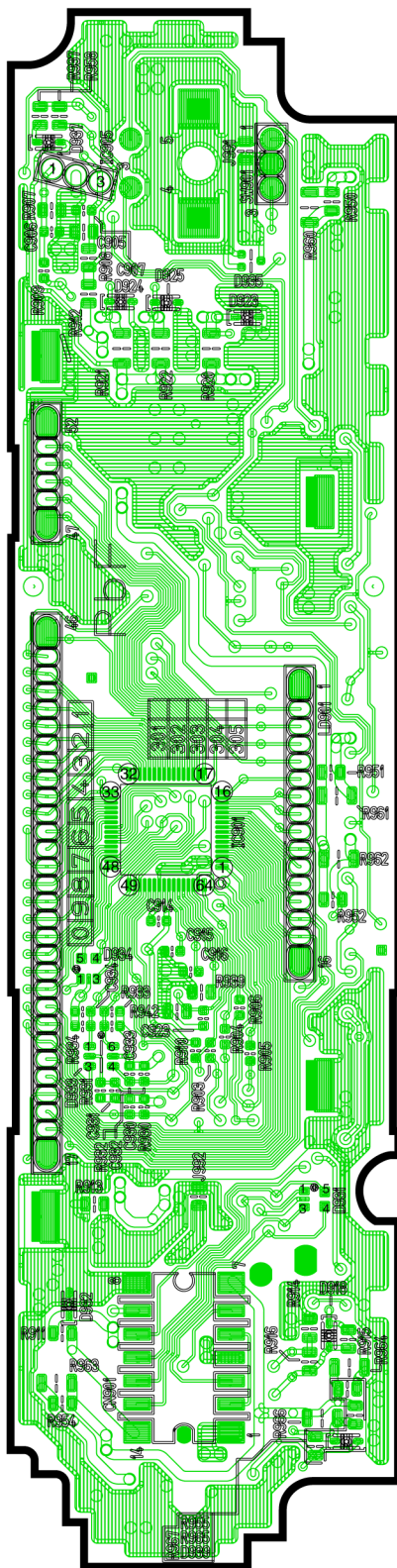
[7211-02-11] [Bottom View]



[7211-03-11] [Bottom View]

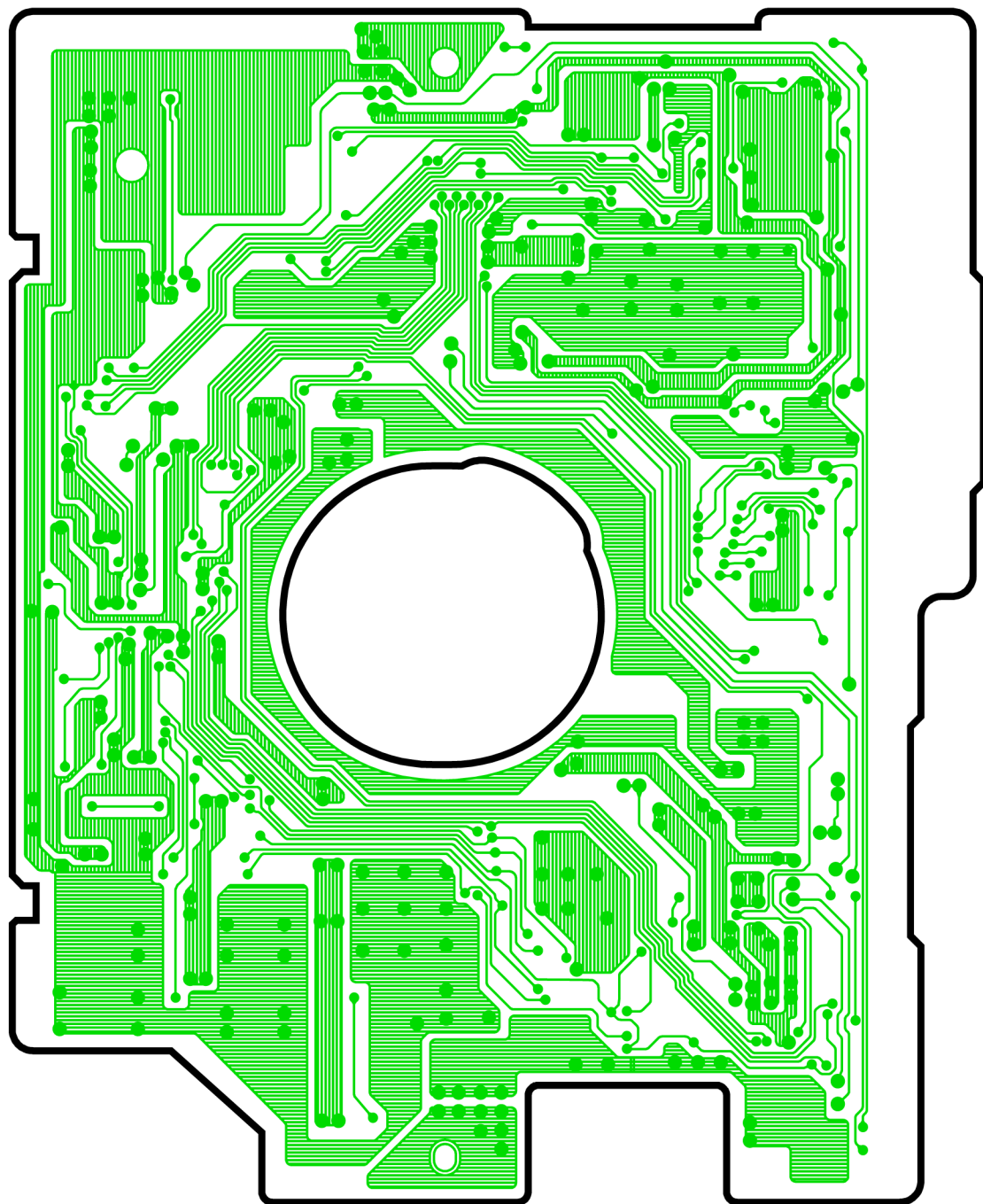


[7211-05-11] [Top View]



[7211-05-11] Bottom View]

[3032-14-13] [Top View]



[3032-14-13] [Bottom View]

7211-02-11

The following symbols are shown on the schematic diagram.

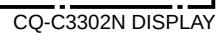
|  |             |
|--|-------------|
|  | +B          |
|  | Acc         |
|  | 10V         |
|  | 5V          |
|  | 8V          |
|  | 9V          |
|  | RADIO (L,R) |
|  | CD (L,R)    |
|  | AUDIO (L,R) |

|                                                                                   |             |
|-----------------------------------------------------------------------------------|-------------|
|  | +B          |
|  | Acc         |
|  | 10V         |
|  | 5V          |
|  | 8V          |
|  | 9V          |
|  | RADIO (L,R) |
|  | CD (L,R)    |
|  | AUDIO (L,R) |



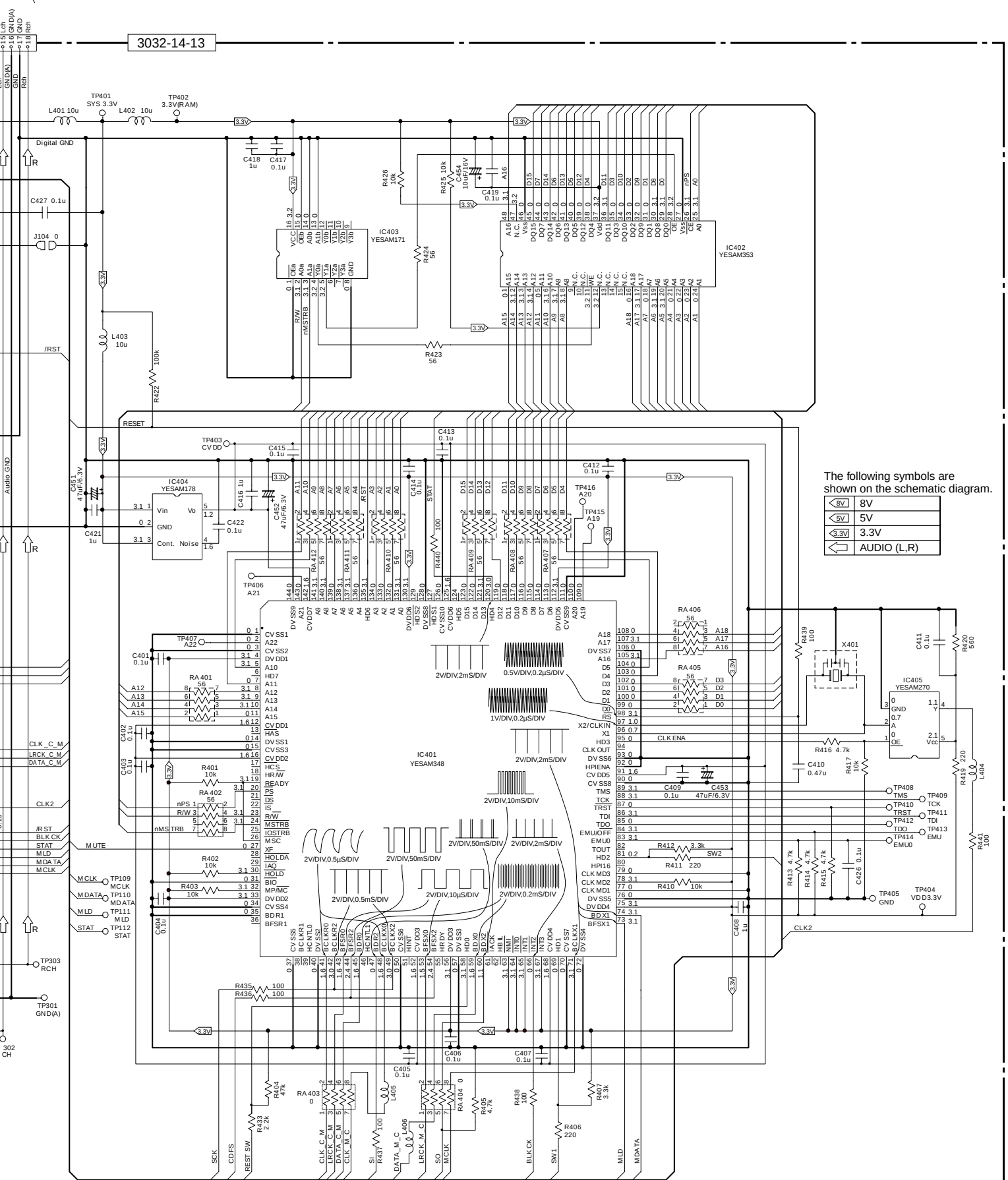
7211-02-11



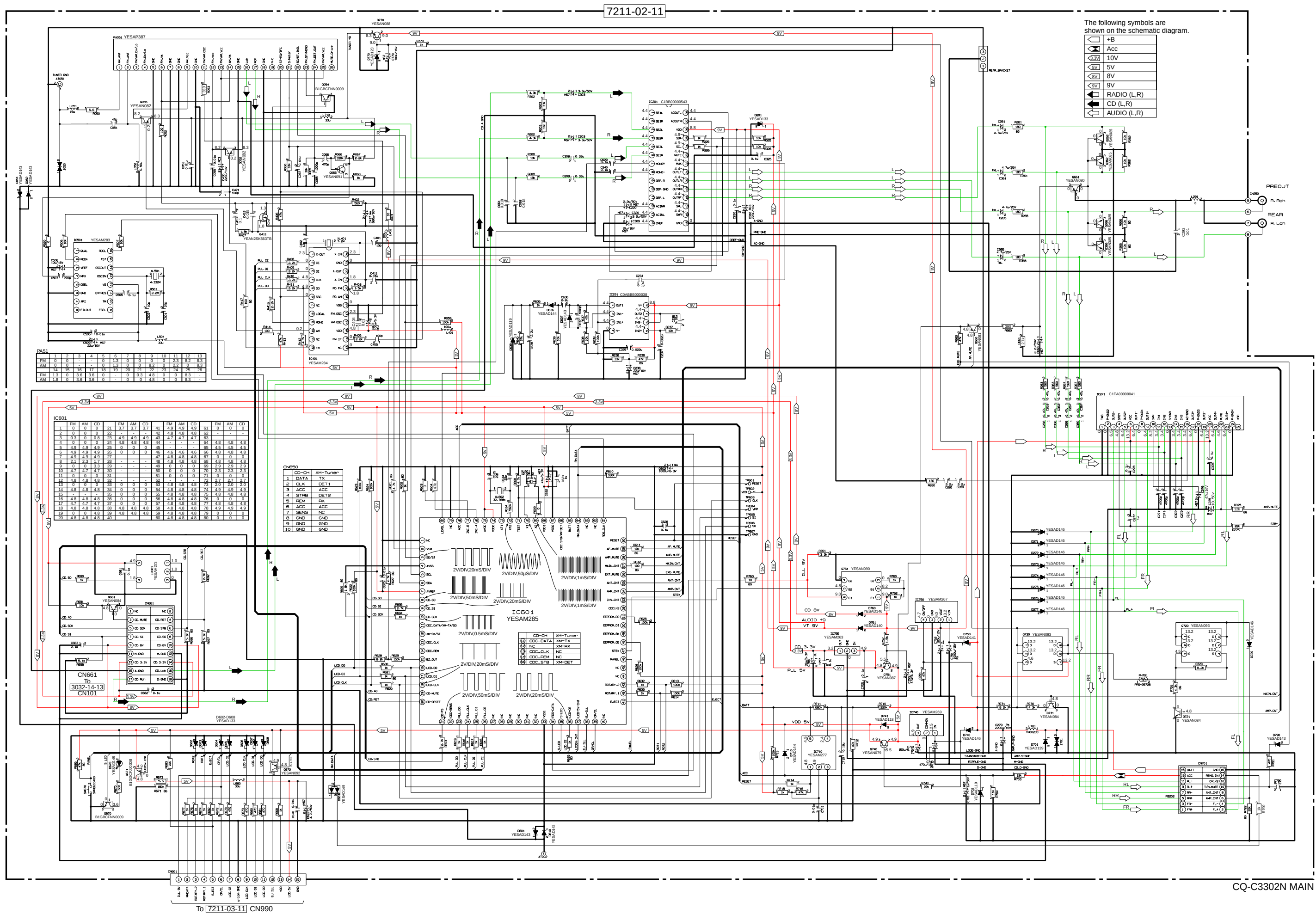




ector

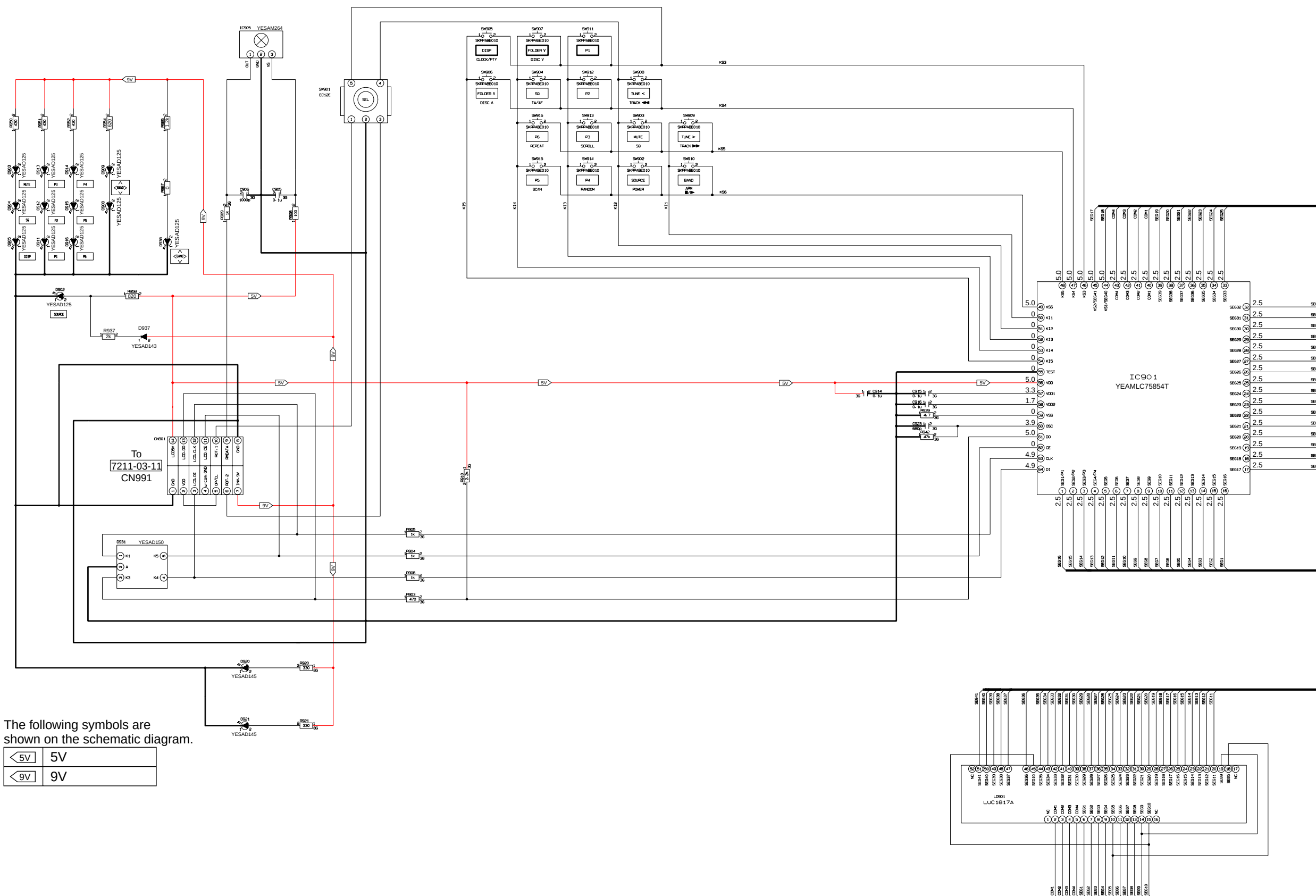


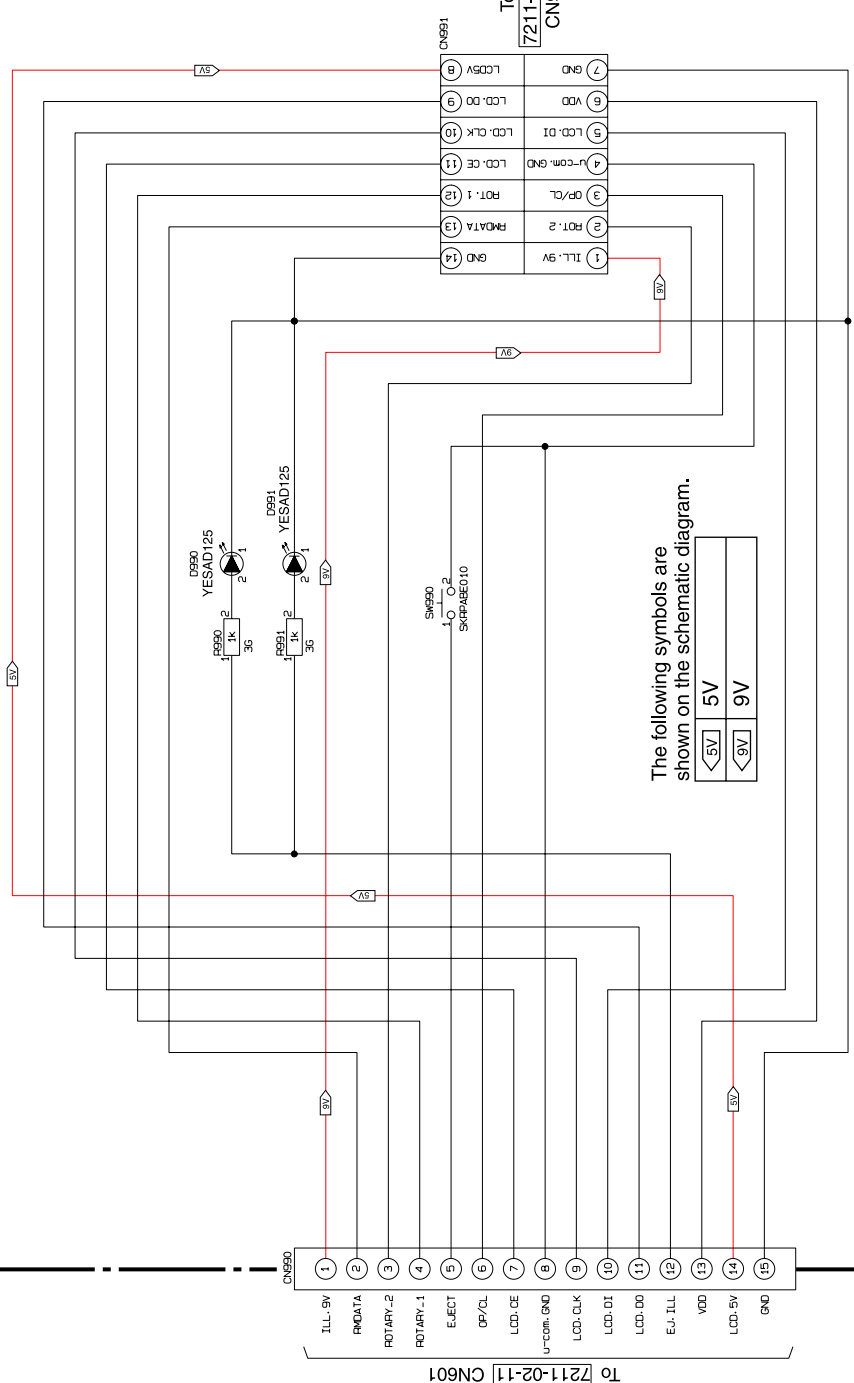




The following symbols are shown on the schematic diagram.

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
|  | 5V |
|  | 9V |





To 7211-02-11 CN601

To 7211-05-11 CN901

The following symbols are shown on the schematic diagram.

|     |    |
|-----|----|
| <5V | 5V |
| <9V | 9V |

